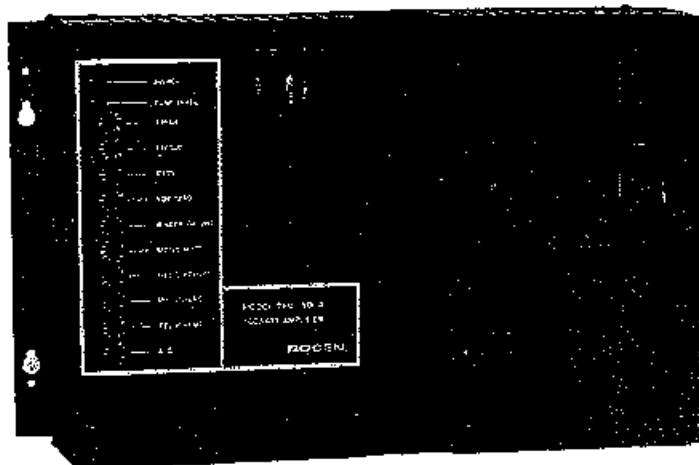


Telephone Paging Amplifiers

Models
TPU35B, TPU60B,
TPU100B & TPU250



Description

Bogen models TPU35B, TPU60B, TPU100B, and TPU250 are wall-mounted telephone paging amplifiers rated at 35, 60, 100, and 250 watts, respectively. The TPU250 can also be rack-mounted. This group of TPU amplifiers permits paging from telephone and/or microphone. Music input through an RCA jack or screw terminals. Voice-activated, variable level, music mute with fade back after page. All the TPU amps in this group include a night ringer which sends an electronic ringing tone signal through all speakers, alerting personnel of incoming calls during non-business hours. Jacks are also provided to bridge two TPU amplifiers to double the number of inputs and outputs.

Features

- 35, 60, 100, and 250-watt models
- Inputs for 600-ohm balanced telephone line, LO-Z balanced microphone, and background music
- Music input (RCA jack or screw terminals)
- Integral automatic level control (ALC) circuit for controlling pages made by persons with varying voice levels and paging techniques
- Page from telephone and/or microphone
- Signal-activated paging channel automatically mutes background music
- Adjustable background music muting level during a page
- Music gradually returns to its normal level after a page
- Aphex® Aural Exciter increases intelligibility, improves perceived loudness (with no increase in power), and reduces listener fatigue
- Separate controls for page volume, music volume, night ringer, music mute, and Aphex® Aural Exciter
- Bass and treble controls
- Built-in night ringer activated by contact closure or by 90V ring signal
- Balanced or unbalanced 16-ohm, 25V, 25VCT, and 70V outputs are available for the TPU35B/60B/100B models; 25V and 70V outputs are available on the TPU250
- VOX sensitivity level control eliminates transmission of background noise when paging from a telephone
- Thermal and electronic overload protection
- Jacks provided for bridging additional TPU amplifiers
- Brackets are attached for easy wall mounting; TPU250 can be rack-mounted
- TPU-B models can be rack-mounted with RPK82 kit
- Peak level indicator lights when amplifier is driven into clipping
- 120V AC, 60Hz power source
- UL and CSA listed

BOGEN®

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Technical Specifications

Power Output:	TPU35B: 35W RMS; TPU60B: 60W RMS; TPU100B: 100W RMS; TPU250: 250W RMS
Frequency Response:	70Hz to 15kHz ± 1 dB
Distortion:	Less than 1%
Hum & Noise:	(20Hz to 20kHz) MUSIC: -70dB; TEL: -70dB; MIC: -55dB
Sensitivity:	MUSIC: 85mV; TEL: -20dBm (77mV); MIC: 600 μ V
Tone Control:	BASS: ± 9 dB @ 100Hz; TREBLE: ± 9 dB @ 10kHz
Regulation:	2dB
Inputs:	TEL: 600-ohm balanced line, transformer-isolated MUSIC: Hi-Z source, RCA jacks or screw terminals MIC: LO-Z balanced, screw terminal connection MUSIC MUTE: Mutes music during a microphone page CONTACT RING: Sounds night ringer tone when customer-supplied dry contacts are closed TEL RING: Sounds night ringer in response to 90V ring signal BRIDGING: Permits bridging of two amplifiers
Outputs:	25V, 25VCT, and 70V, 16 ohms balanced or unbalanced for 35/60/100-watt models; 25V and 70V for TPU250. Provision for WMT1A line-matching transformer
Controls & Indicators:	POWER & PEAK LEVEL LED indicators. APHEX, TREBLE, BASS, VOX SENS, RINGER VOLUME, MUSIC MUTE, MUSIC VOLUME, MIC VOLUME, TEL VOLUME, ALC controls (screwdriver-adjustable)
Overload Protection:	All models have thermal and electronic overload protection. TPU35B: 1.0A, 120V AC circuit breaker; TPU60B: 1.6A, 120V AC circuit breaker; TPU100B: 2.5A, 120V AC circuit breaker; TPU250: 6.0A slow blo fuse
Power Requirements:	(120V AC, 60Hz) TPU35B: 0.75A; TPU60B: 1.5A; TPU100B: 2A; TPU250: 5A
Operating Temperature:	-4°F (-20°C) to 131°F (+55°C)
Finish:	Black with silver lettering
Dimensions:	TPU35/60/100B models: 14-3/16" W x 8-3/8" H x 3-5/8" D TPU250: 19" W x 10-1/2" H x 3-13/16" D
Shipping Weight:	TPU35B: 16 lbs.; TPU60B: 17 lbs.; TPU100B: 21 lbs.; TPU250: 31 lbs.

Architects and Engineers Specifications

The telephone paging amplifier shall be a Bogen Model ____ with a full power rating of ____ watts. (Specify: TPU35B/35 watts, TPU60B/60 watts, TPU100B/100 watts, TPU250/250 watts.) The amplifier shall provide a frequency response of ± 1 dB from 70Hz to 15kHz, and shall deliver rated power at less than 1% distortion.

The amplifier shall permit paging from telephone and/or microphone. The signal-activated paging channel shall automatically mute background music during a telephone page, eliminating the need for manual activation of switches and the use of external relays. Provision shall be included to set to mute the level of background music during a page. Music level shall be returned to its normal level after a page.

The telephone paging channel shall have a VOX sensitivity adjustment to eliminate transmission of background noise, and automatic output leveling (ALC) to compensate for varying voice levels and paging techniques of persons using the system.

An Aphex® Aural Exciter circuit shall be included to regenerate the harmonics lost during the amplification process. A control shall be provided to set the level of the Aphex effect.

A night ringer shall be included to alert personnel of incoming calls during non-business hours. The night ringer shall be activated by a contact closure or by 90-volt ring signal from the telephone line.

Input terminals shall be furnished for a telephone line and LO-Z balanced microphone. A choice of RCA jack or screw

terminals shall be provided for the music source. Terminals shall also be provided to control music muting during a mic page, and for contact closure or ring signal activation of the night ringer. Bridging jacks shall be provided to bridge two TPU-series amplifiers.

Balanced or unbalanced outputs shall be provided for 16-ohm, 25V, 25VCT, and 70V speaker lines. Provision shall be included to feed a 600-ohm telephone line, LO-Z input or balanced microphone input of another amplifier, using an accessory line-matching transformer (Model WMT1A).

Individual controls shall be provided to set the telephone and mic page volume, music volume, night ringer volume, VOX sensitivity, and music mute level. Bass and treble controls shall permit tonal adjustments. An automatic level control (ALC) and VOX sensitivity controls shall be included. A peak level indicator shall illuminate when the amplifier is driven into clipping. A power indicator shall also be provided. The amplifier shall operate from a 120V AC, 60Hz source, and shall be equipped with a resettable circuit breaker and thermal and electronic overload protection (TPU250 has a 6A slow-blo fuse).

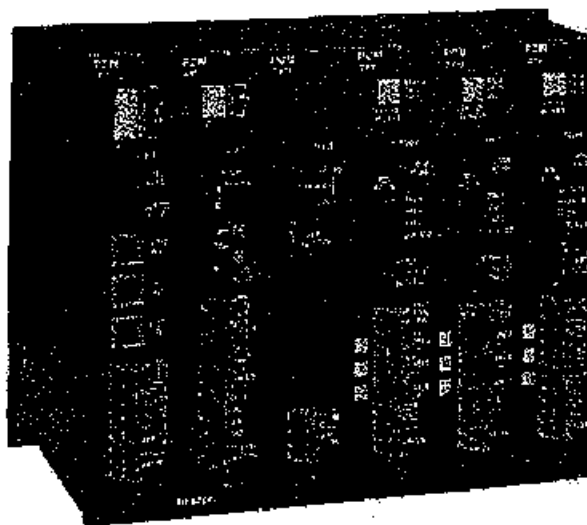
Installation shall be facilitated by flanges with keyhole slots for mounting on a suitable backboard. Dimensions for the 35, 60, and 100 models shall be 14-3/16" W x 8-3/8" H x 3-5/8" D. Dimensions for the TPU250 shall be 19" W x 10-1/2" H x 3-13/16" D.

BOGEN®
COMMUNICATIONS, INC.

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Zone Paging System

Model PCM-2000



Features

- One-zone to 99-zones of simultaneous high power and low power paging.
- Up to 32 paging zone groups.
- Universal Telephone Interface.
- Modular integration assures reconfiguring and expansion with minimum time and expense.
- Optional talk back paging and time-triggered signalling events with PCM-TBM module.
- Field programmable using DTMF and dip switches.
- Signalling features include night ringer zone group, emergency/shift change zone group, code call zone group.
- Emergency All-Facility Override Paging.
- Background music assigned per zone. Local Background music sourcing capability.
- Relay drivers and Aux contacts included.

Technical Specifications

Registered under Part 68 of FCC Rules

Ringer Equivalence: 1.0B

Operating Voltage: 12V DC

Operating Current (max.): 800mA (9-zone system)

Audio Power Capability: 150W/9-zone system

Environmental

Operating Temperature: 25 to 100°F

Operating Humidity: 0 to 90% noncondensing

Dimensions (single module): 7-1/2"H x 1-1/2"W x 4-1/4"D

Shipping Weight (single module): Approximately 2 lbs.

BOGEN COMMUNICATIONS, INC.

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Description

The Bogen PCM-2000 introduces a totally new concept to telephone zone paging and control – Modular Integration. By integrating unique, multi-function modules, we have developed a system that offers both incredible flexibility and unlimited future expansion.

The design of the PCM-2000 takes the ideas and needs of countless installers, consultants and facility owners into account. Their input and suggestions, plus over 65 years of Bogen's communications engineering expertise, were combined to create a fully integrated zone paging and signalling system. Each system installation gives you access to this extensive list of useful features:

- Simultaneous high & low power paging.
- Zone and zone group paging (32 paging zone groups, each with up to 99 zones).
- Built-in talk back amplification (requires PCM-TBM module).
- Background music assigned per zone.
- Local BGM sourcing capability.
- Night ringer zone group.
- Emergency zone group with choice of built-in tones or outside tone source.
- Emergency all-facility page over ride.
- Eight daily time-triggered signalling events (requires PCM-TBM module).
- Pattern & echo code calling.
- Daily master clock synchronization.
- Relay driver per zone.
- Auxiliary contacts.

The PCM-2000 is designed to allow design of a system that is specifically tailored to the requirements of the facility owner. The basic system supports up to three paging zones and consists of only three modules:

PCM-CPU – Central processor.

PCM-TIM – Telephone interface.

PCM-ZPM – Zone module (3 zones).

The PCM-CPU module includes a set of dip switches to set the system ID, a Program/Run switch that allows system programming, a Power jack for 12V DC power, and audio connections for central amplifier, low-power BGM, high-power BGM, emergency/shift change trigger and auxiliary trigger.

The PCM-TIM - telephone interface module incorporates a universal interface so that connection to any telephone system is rapid and trouble-free. The module connects to the telephone system via a standard RJ-11 plug and is programmed simply using common dip switches. All other connections are made to built-in terminal blocks using only a small screwdriver.

Setup is also easy. Zone group programming, selection of all signalling functions, and all other parameters are set by simply dialing in with a touch tone telephone.

The telephone interface module is equipped with three RJ-11 jacks for Night Ring, Tel Line and Over Ride. The NIGHT RINGER feature can be activated from 90V ring signal or contact closure. The TEL LINE jack can be used to program the system locally and provides 48V talk battery. The OVER RIDE feature permits all-zone over ride paging from a dedicated telephone, trunk, or microphone (with suitable pre-amp).

The PCM-ZPM - zone module can operate high power or low-power paging systems (only one type per ZPM module). For high-power paging, a single amplifier can be used for paging and supplying background music (when not paging). Background music can also be continuously supplied to all zones not being paged with the addition of a second amplifier. For low-power operation, background music is always supplied to zones not being paged. Each module can also be disconnected from the background music bus and be connected to a local background music source.

Two additional zone modules can be added to the basic system to increase capacity to 9 zones. When more than 9 zones are required, a central processor module with power supply and up to 3 zone modules can be assembled as a satellite system. Ten additional 9-zone satellite systems can be installed to bring total capacity to 99 zones.

A talk back module (PCM-TBM) can also be added to the system to add hands-free talk back capability. Only one talk back module is required regardless of the number of zones or satellite systems.

Relay driver outputs are provided for each zone. Two C-form contact sets are also provided to control the activation of accessory equipment.

Architects & Engineers Specifications

The zone paging system shall be the Bogen PCM-2000 Zone Paging System, designed for direct connection to loop start and ground start trunks, to PBX or KEY paging ports which supply DTMF capability and to analog T/R lines.

The unit shall include flanges with keyhole slots for wall-mounted installation. Operation shall require a 12V DC @ 300mA power supply for all applications. A suitable power supply shall be provided (specify PCM-PS power supply).

The system shall consist of the appropriate modules as specified and shall be registered under Part 68 of FCC rules.

Part 1 Modules

All modules shall be designed for wall mounted installation. All modules shall be equipped with a ribbon cable and connector and power cable with connector to permit them to be interconnected to each other. The face plates of each module shall be finished in black, with each control/connector clearly labeled in white. Each face plate shall have knockouts to facilitate cable and wire dressing. All connections shall be made using a small regular screwdriver or common jacks (RJ11 or RCA).

The following modules shall be supplied:

PCM-TIM. Telephone Interface Module. One PCM-TIM module shall be provided per PCM-2000 system. The module shall provide for telephone interface selection via built-in DIP switches. It shall include a volume control for tone and BGM source, and RJ-11 jacks for night ringer, telephone line and over ride. A connector block, using screw terminal connections, shall be provided for BGM source, and two (2) C-form relay contact sets. A power on LED indicator shall be provided to indicate power applied status.

PCM-CPU. Central Processing Module. One PCM-CPU module shall be provided for the first nine (9) zones in the system. One PCM-CPU module shall be for each satellite system.

The module shall provide for satellite system identification via built-in DIP switches. It shall include a locking program/run selector switch (with program LED), satellite data link RCA jack, and 12V DC power source jack. A connector block, using screw terminal connections, shall be provided for paging amplification connection, low-power and high-power BGM connections, emergency/shift change signal activation, AUX contact closure and 12V DC power source connection. A power on LED indicator shall be provided to indicate power applied status.

PCM-ZPM. Zone Paging Module. One PCM-ZPM module shall be provided for each three (3) paging zones in the system. Up to three (3) PCM-ZPM modules may be connected to the master system, for a total zone capacity of 9 zones. Up to three (3) additional PCM-ZPM modules may be connected with a PCM-CPU module to form a satellite system to further increase zone capacity.

The PCM-ZPM module shall provide built-in DIP switches to set talk back on/off for each zone. It shall include a power on LED, low-power background music volume control, background music out/in jumper field, local BGM selection jumpers, and high-power/low-power operation selector switch. A connector block, using screw terminal connections, shall be included to connect local background music, zone wiring, and relay driver outputs.

PCM-TBM. Talk back Module. One PCM-TBM Talk back module shall be provided per system (including any satellite systems). The module shall provide for talk back operation in centrally-amplified zones (only). The module shall provide a power on LED, talk back volume control, and talk back switching delay control. A connector block, using screw terminal connectors shall be included for paging amplification wiring.

Part 2. Features & Functions.

The PCM Zone Paging System shall supply the following features and functions:

1. Simultaneous high-power and low-power paging.
2. A minimum of three paging zones and maximum zone capacity of ninety-nine (99) paging zones. The system shall be expandable in groups of three zones.
3. Up to 32 field-programmable paging zone groups, each consisting of 1 to 99 zones.
4. Field programmable Night Ringer Zone Group, consisting of from 1 to 99 zones. This feature shall be activated by high-voltage ring signal or contact closure.
5. Field programmable Emergency/Shift change Zone Group, consisting of from 1 to 99 zones. This feature shall require activation by a customer-supplied contact closure, and sound a user-selected tone.

The user shall have the choice of no tone (allowing use of outside tone source), tone burst (1-7 sec. duration, user-selected), single chime or quad beep.

-
- 6. Emergency All-Facility Page Override. The feature shall be activated through a loop start trunk or through contact closure and dry audio input. It shall override the normal paging features of the system, sound a user-defeatable alert tone in all zones, and open an audio channel for a voice page.
 - 7. Built-in talk back amplification of central-amplified zones. This feature shall require the addition of the PCM-TBM module.
 - 8. Background music assigned per zone and local background music sourcing capability.
 - 9. Field programmable Code Call Zone Group, consisting of from 1 to 99 zones. The user shall have the choice of pattern or echo code calls, and repeat functions.
 - 10. Eight daily time triggered signalling events. This feature requires the use of the PCM-TBM module.
 - 11. Two (2) C-form relay contact sets for activating external equipment. The contacts shall change state when the unit is activated.
 - 12. Capability of providing uninterrupted background music to all zones not being paged.
 - 13. Nonvolatile RAM shall be included to allow for retention of programming information during power interruptions.
 - 14. Screwdriver-adjustable volume control of confirmation, preannounce, error, and shift change/emergency-call tones.



Quam

C5 Series

Loudspeaker/Transformer/Baffle Pre-assembled Combinations

Quam-Nichols Company



16 COMMUNICATIONS

These assemblies feature the model 8C5PAX 8" dual-cone loudspeaker with a 5 oz. ceramic magnet, a 25, 70 or 25/70 volt transformer, and a choice of several baffles. The constant voltage line transformers have taps ranging from 1/4 to 5 watts and are supplied with 8-ohm secondary connectors. The ceiling

baffles feature one piece construction to virtually eliminate vibration and fit most recessed enclosures, including Quam ERD-8 series backboxes as well as plaster rings and Quam SSB-2 and SSB-3 tile support bridges. All units come fully assembled with mounting hardware.

LOUDSPEAKER

COMPONENT CODE	MODEL NO.	SIZE (INCHES)	POWER RATING	CONE	MAGNET WEIGHT	FREQUENCY RESPONSE
C5	8C5PAX	8"	10 W	DUAL	4.8 oz.	65-17K

TRANSFORMER

COMPONENT CODE	MODEL NO.	POWER RATING	INSERTION LOSS	PRIMARY VOLTAGE	PRIMARY TAPS
B25	TBL25	4W	< 1 dB	25	1/4, 1/2, 1 - 2 - 4
B70	TBL70	4W	< 1 dB	70.7	1/4, 1/2, 1 - 2 - 4
BU	TBLU	5W	< 1 dB	25 & 70	5/8, 1-1/4, 2-1/2, 5

BAFFLE

COMPONENT CODE	MODEL NO.	MATERIAL	TYPE	FINISH
A	BRSA	ALUMINUM	ONE-STEP	BRUSHED
W	BRBW	STEEL	ONE-STEP	BAKED WHITE EPOXY
WC	BRWC	STEEL	TWO-STEP	BAKED WHITE EPOXY
WP	BRWP	PLASTIC	LOUVERED	WHITE

VOLUME CONTROL

COMPONENT CODE	CONTROL	RATING	MOUNTING
VK	WHITE KNOB	50 ohm	CENTER OF BAFFLE
VS	RECESSED	50 ohm	CENTER OF BAFFLE

Features

- All units fully assembled with hardware
- One piece baffle construction
- Volume control option
- In stock for immediate shipment

Architects & Engineers Specifications

Loudspeakers shall be an 8" molded fiber cone with a propagator mounted directly to the voice coil assembly to extend high frequency response. The loudspeaker shall use a 4.8 ounce ceramic magnet. Flux density shall be 9,500 Gauss minimum. Frequency response of the speaker shall be 65 Hz to 17KHz with a power handling capability of ten watts RMS referenced to EIA standard 426A. Voice coil diameter shall be .75" and shall have a nominal impedance of eight ohms. Axial sensitivity of the speaker shall be not less than 98dB at a distance of one

meter with one watt of source power applied. An integral constant voltage line transformer mounted to the loudspeaker basket shall be included. A one-step round, two-step contoured, louvered plastic or brushed aluminum baffle shall be included as part of the assembly. Speaker baffles shall be (zinc treated steel and coated with a white powder epoxy finish) (brushed aluminum) (white plastic). Loudspeaker and baffle units shall be factory assembled to maintain standard assembly procedures with minimal variances.



Quam

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TS-51A

Quam

QC10 Series Attenuators

Quam QC10 series of attenuators are designed to provide local or remote level control of 25 or 70.7 volt distributed loudspeakers. These attenuators can be used to control a single speaker or groups of loudspeakers when the total speaker load is twenty watts or less. Each model provides ten standard steps of attenuation plus an "off" position. Model QC10 features a contemporary style, embossed position

identification stainless steel trim plate. QC10 Classic is the traditional style, embossed, paint filled stainless steel trim plate. All models in this series except QC10RM include screws to mount to standard single gang electrical boxes with a depth requirement of 2-1/8 inches. Model QC10RM is supplied with a 2" x 2" dial scale and a barrel extension nut to accommodate mounting to rack panels up to 1/8" thick.

Model	Type / Description
QC10	WALL MOUNT W/ EMBOSSED POSITIONS
QC10 CLASSIC	WALL MOUNT W/ EMBOSSED, PAINT FILLED, POSITIONS
QC10P	WALL MOUNT W/ 24 VDC PRIORITY "BYPASS" RELAY
QC10RM	RACK PANEL MOUNTED W/ DIAL SCALE

Specifications

POWER RATING	20 WATTS CONTINUOUS
POSITIONS	10 PLUS "0" (OFF) POSITION
ATTENUATION STEPS	STEPS 1-2 = -6 DB
REF. 70.7 VOLT LINE	STEPS 3-10 = -3 DB
TOTAL ATTENUATION	-36 DB (NOT INCLUDING "0" POSITION)
INSERTION LOSS	< .5 DB
WALL MOUNTING PLATE	SINGLE GANG BRUSHED STAINLESS STEEL
RECOMMENDED WALL BOX	(FLUSH) RAYCO #600 OR EQUIVALENT (SURFACE) QUAM SE4W
QC10P RELAY	VOLTAGE 24 VDC CURRENT .015 AMPERE
CONTROL KNOB	BLACK W/ WHITE POSITION INDICATOR

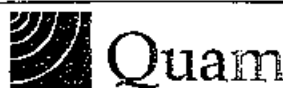
Features

- Twenty-watt continuous power rating
- Protective bracketing guards against accidental damage to switch leads during installation
- Durable, insulated, stranded switch leads prevent breakage and accidental grounds
- Positive stop action switch
- Two styles of stainless steel trim plate
- In stock for immediate delivery

Architects & Engineers Specifications

The area attenuator controls shall be Quam [insert desired model from chart] or approved equal. Each unit shall have a power handling capability of 20 watts continuous power. Attenuator controls shall provide a total of -36 dB of attenuation between ten steps and shall include an additional off position. Rotary switches shall allow continuous rotation

through all positions. Wall mounted units shall be furnished with a one gang stainless steel trim plate. Rack mount versions shall include a dial scale. Priority attenuator controls shall have an integral 24 VDC relay which when activated shall bypass the attenuation setting. Control knobs shall be black with a white position indicator.



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Member



TS-15C

Quam

Loudspeaker Ceiling Mounting Accessories

SSB-2, SSB-3, SSB-4, SSB-6, SSB-7, SSC-1

This series of loudspeaker mounting accessories covers a broad scope of installation requirements. All devices incorporate features to reduce installation time and incorporate load bearing designs to eliminate unsightly and dangerous tile or drywall sagging problems. Models that are compatible for use with enclosures include built-in backbox mounting tabs to facilitate quick and easy attachment of Quam UL listed ERD series or ESD8-8 backboxes.

ARCHITECTS AND ENGINEERS SPECIFICATIONS

SSB-2 Suspended Ceiling T-Bar Support Bridge

The 8" loudspeaker support bridges shall be a Quam Model SSB-2 or approved equal. Units shall be constructed from rust inhibited steel and shall provide load-bearing support for the Speaker/Baffle assemblies. The bridge shall accept round or square screw mounted grilles. The bridge shall provide securing tabs to mount UL Plenum Approved (UUMW) backboxes (specify separately if required).

SSB-3 Suspended Ceiling T-Bar Support Bridge

The 8" loudspeaker support bridges shall be a Quam Model SSB-3 or approved equal. Units shall be constructed from rust inhibited steel and shall provide load-bearing support for the Speaker/Baffle assemblies. The bridge shall accept round or square conventional screw mounted and Quam torsion spring mounted grilles. The bridge shall provide securing tabs to mount UL Plenum Approved (UUMW) backboxes (specify separately if required).

SSB-4 Suspended Ceiling T-Bar Support Bridge

The 4" loudspeaker support bridges shall be a Quam Model SSB-4 or approved equal. Units shall be constructed from rust inhibited steel and shall provide load-bearing support for the Speaker/Baffle assemblies. The bridge shall accept BR4W or BR4WS grilles. Each shall provide securing tabs to mount UL Plenum Approved (UUMW) backboxes (specify ERD8 or ESD8-8 backboxes separately if required).

SSB-6 Suspended Ceiling T-Bar Support Bridge

Note to Specifier: The SSB-6 is a suspended ceiling support bridge to be used exclusively with BR810WS grille assemblies where backboxes are required.

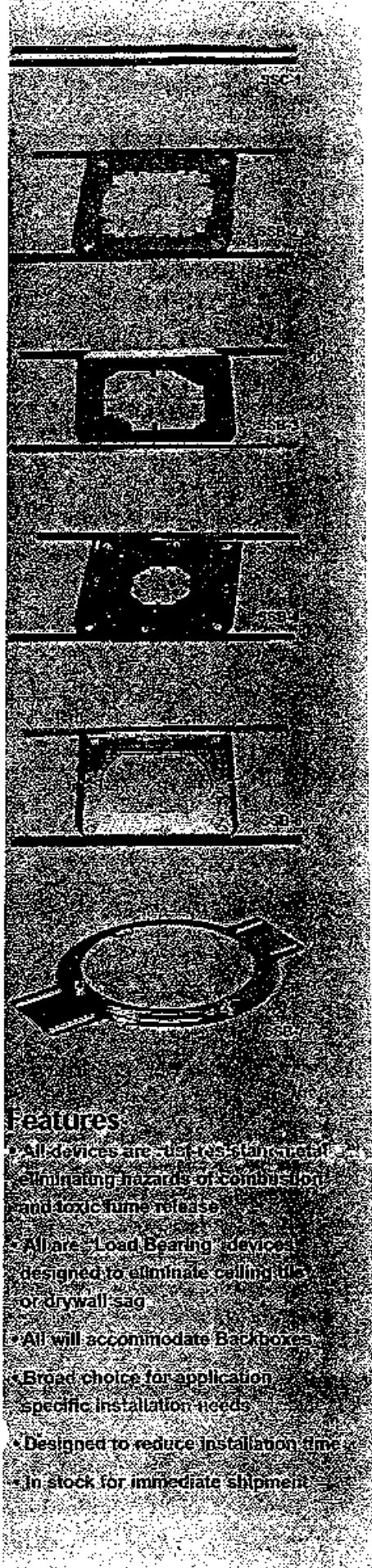
The 8" loudspeaker support bridges shall be a Quam Model SSB-6 or approved equal. Units shall be constructed from rust inhibited steel and shall provide load-bearing support for the integrated Loudspeaker/Transformer and BR810WS Grille. The bridge shall provide securing tabs to mount UL Plenum Approved (UUMW) backboxes (specify either ERD8 or ESD8-8 backboxes separately if required).

SSB-7 New Construction Sheet Rock Ceiling Support

The 8" loudspeaker Sheet Rock support system shall be a Quam Model SSB-7 or approved equal. Units shall be constructed from rust inhibited steel and shall provide load-bearing support for sheet rock ceilings. It shall securely mount to the supporting system for the sheet rock on either 16" or 24" centers and shall provide slots to allow the Loudspeaker assembly (and backbox if required) to be adjusted for clearance from other ceiling fixtures. The SSB-7 shall provide securing tabs to mount UL Plenum Approved (UUMW) backboxes (specify ERD8 backboxes separately). The device shall have a 1/2" depth flange.

SSC-1 Mounting Channel

The support system shall consist of two Quam SSC-1 mounting channels and shall mount either 4" or 8" Loudspeaker/Transformer/Grille assemblies. (If backboxes are required specify 8" loudspeaker assemblies only and specify ERD8 backboxes separately)



Features

- All devices are built of steel, eliminating hazards of combustion and toxic fume release.
- All are "Load Bearing" devices designed to eliminate ceiling tile or drywall sag.
- All will accommodate Backboxes.
- Broad choice for application specific installation needs.
- Designed to reduce installation time.
- In stock for immediate shipment.

Click for
specifications



Quam

Quam-Nichols Company

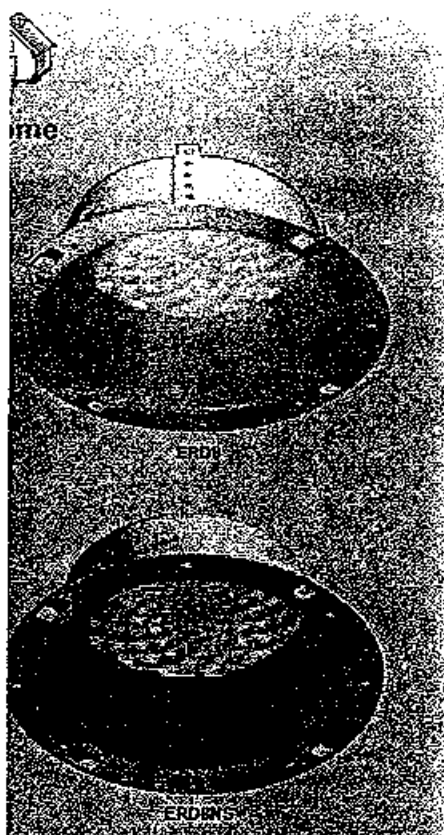
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Member



TS-26A



Features

Entire series is UL listed, category UUMW suitable for use in ceiling plenums that are part of air handling system.

SSB-2 Tile Support Bridge (purchased separately) is a UL approved (UUMW) accessory when used with the ERD8 series.

Designed to nest, eliminating bulky cartons for shipping and job site storage space requirements.

Baffle mounting flanges are securely captured in mounting flange eliminating loss during transit and installation.

Four slots at 90° provide quick attachment to SSB-2 tile bridge without need to purchase additional hardware.

In stock for immediate shipment.



Quam

ERD8 Series Round, Recessed Backbox Enclosures UL Listed (UUMW)

Constructed of drawn steel, these backboxes have a bump to add acoustical rigidity and a fire retardant acoustic damping device to reduce standing waves

and mechanical resonances. They are approximately half the weight of welded backboxes. They can be used with SSB-2, SSB-3, SB-4, SSB-6 and SSB-7 support devices.

ERD8 SERIES SPECIFICATIONS

MODEL	ERD8	ERD8NS	ERD8-1KT	ERD8-1ST	*ERD8TR
Inside diameter	9-3/4"	9-3/4"	9-3/4"	9-3/4"	9-3/4"
Flange diameter	12-5/16"	12-5/16"	12-5/16"	12-5/16"	*N/A
Depth	4-1/2"	4-1/2"	4-1/2"	4-1/2"	4-1/2"
Perforated Straps	4 @ 90° on side	None	None	1 on top	1 on top
Mounts all baffles with Bolt Circle of:	11-1/4"	11-1/4"	11-1/4"	11-1/4"	*For System TR
Volume (cubic inches)	275	275	275	275	275
Knock outs: (1/2" & 3/4")	4 @ 90° on side	4 @ 90° on side	1 on top	4 @ 90° on side	4 @ 90° on side
Weight	1 lb-11 oz	1 lb-11 oz	1 lb-11 oz	1 lb-11 oz	1 lb-11 oz
Material	22 gauge steel with rust inhibitive coating on all surfaces				
Finish	white, baked, hybrid powdered epoxy on outside surfaces				
T-Bar Mtg. Accessory	SSB-2	SSB-2	SSB-2	SSB-2	N/A

*Model ERD8TR is dedicated model for use with System TR (refer to TS-60).

Architects & Engineers Specifications

The Loudspeaker enclosure shall be Quam model [ERD8, ERD8NS, ERD8-1KT, ERD8-1ST, ERD8TR] or approved equal. The enclosure and tile support bridge accessory must be UL listed, category UUMW, for use in air plenum spaces. Construction shall be seamless, one piece type, drawn from 22 gauge steel that is coated with a rust inhibitor on all surfaces and finished on the exterior with baked, hybrid, epoxy, powder coating. The enclosure shall provide a minimum interior volume of 275 cubic inches. The enclosure shall have a resonance damping pad which does not support combustion. [Insert for all models except ERD8-1KT] Four combination knockouts shall be provided on the side of the enclosure, spaced at 90°

to accommodate either 1/2" or 3/4" approved metallic conduit or cable box connectors. [Insert for model ERD8-1KT] The enclosure shall have one combination 1/2" and 3/4" knockout located on top center. [Insert for ERD8-1ST] The enclosure shall have a perforated steel strap on top of the enclosure to accommodate T-Bar weight relief and seismic tie-off requirements. [Insert for all models except ERD8TR] The enclosure shall mount to Quam model SSB-2 tile support bridge by four slots spaced at 90° and without need of separately purchased non-approved hardware. [Insert for model ERD8TR] The enclosure shall mount to the Quam System TR with four provided #8 sheet metal screws.



Quam

Quam-Nichols Company

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Member

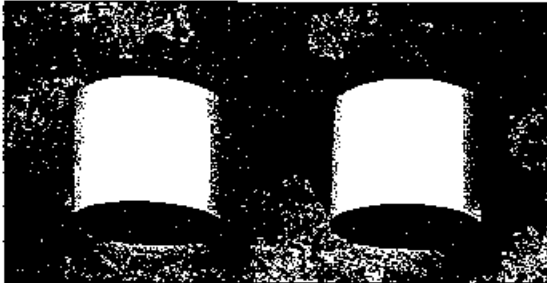


TS-37B



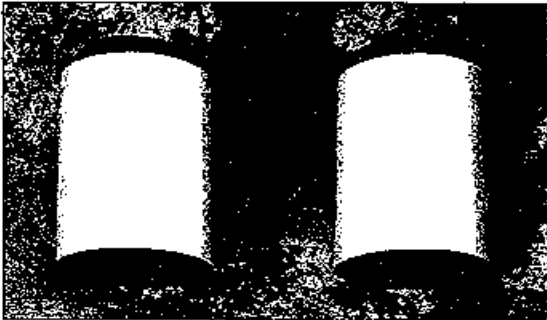
X SERIES 8+ DESIGNER BAFFLE ENCLOSURES

X8414, X8614,
X8409, X8609, X8500



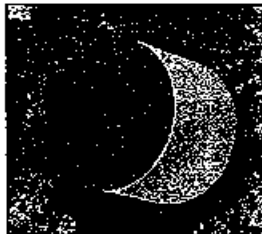
X8409

X8609



X8414

X8614



X8500

GENERAL DESCRIPTION

The X Series 8+ Cylindrical Baffle for eight-inch loudspeakers enhance interior architectural aesthetics with its clean, attractive appearance. The smooth cylindrical shape and contrasting two-tone textured finish provides a simple effective clarity - a perfect compliment to the symmetrical themes of many interior architectural layouts.

Cylindrical units are available in lengths of 14", 9-1/2", and 8" to meet various acoustical and appearance requirements.

X Series baffles resemble contemporary down lights both in dimension and finish, and are often mounted in conjunction with such light fixtures to maintain aesthetic consistency.

All units are manufactured of seamless spun aluminum, finished in choice of two colors, with contrasting matte black canopies and regressed grilles. Interior is undercoated and patched jute lined to eliminate mechanical and acoustical resonance.

Models X8409 and X8414 are respectively offered in lengths of 9-1/2" and 14". Enclosures are designed for applications where vertical ceiling mounting is required. Standard units facilitate surface/pendant mounting, and may be suspended by utilizing optional 435 Series suspension hangers. Suspension mounting is recommended for high or vaulted ceilings, as well as overhangs where directional sound is desired. 435 Series is available in 1,2,3,4,5 and 6-foot increments.

Models X8609 and X8614, which feature respective lengths of 9-1/2" and 14", are engineered for wall-mounting applications and feature uni-directional sound. Units are commonly sconce-mounted on walls in such areas as restaurants, lounges, and meeting rooms.

Model X8500 is a bi-directional, 8" long enclosure which can be mounted on walls or low ceilings. Units are ideal for placing in corridors of hotels, public buildings, schools, and transportation terminals.

COLOR COMBINATIONS

-A= Satin Aluminum and Black -W= Textured White and Black

Please suffix model numbers with one of the letters shown above to obtain the color combination of your choice.

MODEL NO.	TYPE	SPEAKER SIZE	DIAMETER	DIMENSIONS		MOUNTING CONFIGURATION	VOLUME (CUBIC FEET)	NET WEIGHT (lbs / kgs)
				LENGTH	PROJECTION			
X8414(-A)(-W)	Cylindrical/ Directional	8" (203mm)	10-1/8" (257mm)	14" (356mm)	14" (356mm)*	Surface or Suspended	.58	4.0 / 1.8
X8409(-A)(-W)				9-1/2" (241mm)	9-1/2" (241mm)*		.37	3.4 / 1.5
X8614(-A)(-W)				14" (356mm)	11-1/4" (279mm)	Wall Mount	.58	5.0 / 2.5
X8609(-A)(-W)				9-1/2" (241mm)		Surface Mount	.37	4.2 / 2.0
X8500(-A)(-W)	Cylindrical/ Bi-Directional		8" (203mm)				N/A	4.8 / 2.2

*Projection will vary when suspended using 435 Series hangers.



ATLAS / SOUNDOLIER ATAPCO SECURITY & COMMUNICATIONS GROUP

1859 INTERTECH DRIVE / FENTON, MISSOURI 63026 U.S.A. / TELEPHONE: (314) 349-3110 / FAX: (314) 349-1251

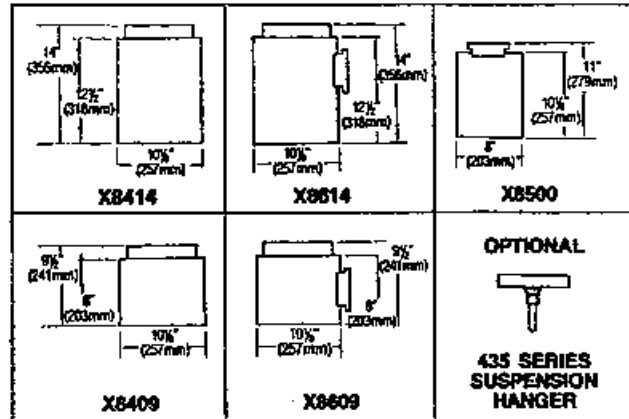
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00997

SL3-1167

Specifications are subject to change without notice



ARCHITECTS AND ENGINEERS' SPECIFICATIONS

The baffle shall be Atlas/Soundolier Model _____ (X8414, X8409, X8614, X8609, X8500) or approved equal. Baffle shall feature a one-piece spun cylindrical aluminum housing of sturdy construction. Baffle radiation pattern shall be _____ (uni-directional—X8414, X8409, X8614, X8609; bi-directional—X8500) and the interior shall be undercoated with a sound deadening material and lined with patched jute to eliminate acoustical and mechanical resonance. Baffle shall have a _____ (satin aluminum or textured white) finish with contrasting matte black canopy and regressed grille. Mounting style shall be _____

(surface or — with optional 435 Series hanger — suspension - — X8414, X8409; side mounted—X8614, X8609; wall or ceiling mounted—X8500) and shall include necessary hardware for mounting to a standard 4" (102mm) octagonal electrical outlet box. Baffle grille shall accommodate a standard 8" (203mm) loudspeaker. Baffle housing shall measure 10-1/8" (257mm) in diameter and shall have an overall length of _____ 14" (356mm)—X8414, X8614; 9-1/2" (241mm)—X8409, X8609; 8" (203mm)—X8500.)



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SL3-1167

V-2003A - THREE ZONE PAGE CONTROL UNIT V-2003AHF - THREE ZONE HANDSFREE TALKBACK PAGE CONTROL UNIT

INTRODUCTION

The V-2003A provides telephone system access to multiple zones (Up to 3) of one way paging plus all call.

The V-2003AHF provides telephone system access to multiple zones (Up to 3) of handsfree talkback and/or one-way paging with a one-way all call.

"WARNING: To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture."

"WARNING: Shock Hazard - Do Not Open."

"AVIS: Risque de Choc Electrique ne pas Ouvrir."

"PELIGRO: Corriente Electrica - No Abra."

"CAUTION: To reduce the risk of fire replace only with same type 1A, 125V fuse. 1A, 125V may be replaced by a 0.5A, 250V provided voltage selector is set for 230V."

"DANGER: Afin de réduire le risque de feu, remplacez le fusible par le même type de fusible à 1A, 125V. On peut utiliser un fusible à 0.5A, 250V pourvu que le sélecteur d'alimentation soit fixé sur 230V. Ne pas ouvrir."

"VORSICHT: Zur verringierung von feuergefahr die sicherung nur mit derselben type 1A, 125V ersetzen. Statt 1A, 125V Kann 0.5A, 250V Benutzt werden, vorausgesetzt, die spannung ist auf 230V eingestellt. Nicht öffnen."

"PELIGRO: Para reducir el peligro de

incendio remplazarlo unicamente con un fusible del mismo tipo 1A, 125V. El fusible de 1A, 125V podra ser remplazado por uno de 0.5A, 250V si el selector de voltaje esta puesto en 230V. No abres."

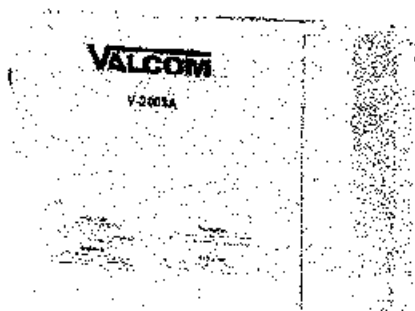
SPECIFICATIONS

Access Method

- Electronic Key System (C. O. Line Position)
- PABX (Loop or Ground Start Trunk)
- 1A2 Key systems (400 Type Line Card required)
- 600 Ohm Page Port equipped with contact closure and DTMF dialing capability; Page Port must be bi-directional if using V-2003AHF.
- Dedicated single line telephone(s)

Features of the V-2003A

- 3 zones of one-way paging
- One-way all call
- Integrated power supply
- Supplies 20 Valcom power units (-24VDC, 1 Amp) for powering speaker amplifier assemblies
- Volume Controls supplied for:
 - Background music
 - Tones
 - Night ring/warble tone (Closure or 90VAC ring activated)
 - Time clock/single tone (Closure activated)
- Options are dip switch programmable per zone (Music and tones)
- Dial tone (Optional)
- (#) Button returns dial tone
- Provides audio for up to 150 Valcom one-way speaker amplifier assemblies per zone
- 115VAC @ 60Hz or 230VAC @ 50Hz operation
- AC input fused at 1 Amp @ 115VAC or 0.5 Amp @ 230VAC
- Override page on separate tip/ring temporarily disconnects page in progress and issues an override busy tone to overridden party
- Normal paging is restored after override
- Inhibit circuitry (Speaker cancel)
- UL Listed



Additional Features Supplied by the V-2003AHF

- 3 zones of handsfree talkback, one-way or mixed paging
- Dip switch programmable per zone (Music, tones and one-way or talkback)
- Pre-announce tone (Optional)
- Repeated alert tone (Optional)
- Two volume controls for handsfree paging
 - Page (Phone to speaker)
 - Receive (Speaker to phone)
- Supplies 10 Valcom power units (-24VDC, 0.5 Amp) for powering one-way amplified speakers (A reduction of 10 power units from the V-2003A)

Priority Sequence

The V-2003A and V-2003AHF Units are designed with the following priority (1 = highest; 5 = lowest):

1. Time clock signal
2. Override page
3. System page
4. Night ring
5. Music

Physical Description

The V-2003A and V-2003AHF are contained in single, gray steel cases, which can be wall or shelf-mounted.

V-2003A

Dimensions: 7.10"H x 10.00"W x 3.00"D
(18.03cm x 25.40cm x 7.62cm)

Weight: 4.1 lbs. (1.86 kg)

V-2003AHF

Dimensions: 7.10"H x 10.00"W x 3.00"D
(18.03cm x 25.40cm x 7.62cm)

Weight: 5.6 lbs. (2.54 kg)

Nominal Specifications

Input Impedance: 600 Ohms

Input Level: -10dBm

Music Source Impedance: 8 to 600 Ohms

Music Input Level: -10 to -18dBm

Output Impedance: 8 Ohms (1 way)
45 Ohms (Talkback)

Output level: -10dBm (1 way)
1 Watt (Talkback)

DC Output: -24VDC at 1 Amp (V-2003A)
-24VDC at 0.5 Amp (V-2003AHF)

Nominal Power Requirements

Voltage:	Current:
115VAC	1 Amp
230VAC	0.5 Amp

Battery Backup

The V-2003A/V-2003AHF is equipped with a standard 3-prong MOLEX connector to allow connection of a fused output battery backup supply (3 Amp, Valcom VPB-260 or equivalent) in case of AC power failure. Backup time will be a function of system usage.

- Use a cord set consisting of a minimum 18 AWG cord and grounding type attachment plug rated a minimum of 15A, 250V. The cord set should have the appropriate safety approvals for the country in which the equipment will be installed and marked HAR.
- The socket outlet shall be installed near the equipment and shall be easily accessible.

Environment

Temperature:	0 to +40 Degrees C
Humidity:	0 to 85% non-condensing

OPERATION

General

Press the line key (Electronic Key System), dial the trunk access code (PABX) or dial the page port access code to access the V-2003A/V-2003AHF; with dedicated single line sets - simple go off hook. The V-2003A/V-2003AHF will return dial tone (If so optioned). Dial desired zone code: 1, 2, 3, or 5, 6, 7 for individual zones (1 through 3 respectively). Dial 4 or 8 for the all call of all zones. Ringback tone (If so optioned) will be heard in the telephone receiver. Make announcement and hang up. The unit will automatically disconnect from page. Ringback tone and repeated alert tones, when optioned, provide an alert tone to the talkback zones on a V-2003AHF. The repeated alert tones will broadcast every 15 seconds when the zone is active in the handsfree mode.

Background Music

A line level amplified background music source may be connected to the control unit. The background music will cut off only in the zone being paged if the zone is programmed for background music.

Night Ring and Single Tones

Two methods of night ringing (Electronic Warble Tone) over the paging system is available.

1. UNA Closure: Activated by a Common Audible, Dry Contact Closure
2. UNA Ringing: Activated by 90VAC +/- 20% (20/30Hz) ring voltage

Clock Tone

A single tone over page is provided when a Dry

Contact Closure is connected to the Clock Closure Input Terminals (i.e. Time Clock).

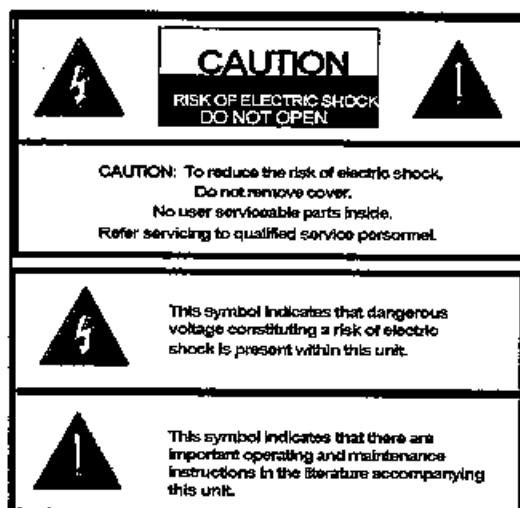
The single tone and warble tone may be dip switch selected on a per zone basis (One dip switch is supplied per zone for tones, so the single tone and warble tone are both selected on or both selected off).

Page Port Access

When used with page port access, the Page Control Unit may only be used with a 600 Ohm page port equipped with contact closure that will pass DTMF for zone selection. Also, the page port must be capable of passing bi-directional audio for talkback operation (V-2003AHF).

INSTALLATION

Precautionary Designations



NOTE: The telephone system referred to in this manual is the customer premise equipment such as an electronic key system, a PABX or a dedicated single line telephone(s). The V-2003A/V-2003AHF is not intended for direct or indirect connection to the public telephone network or any telephone line providing dial tone. When used with a customer premise telephone system such as a key system or PABX system, these units are interfaced to the system via a fully protected page port or system central office port, which is a fully protected interface device. Also, the host system must be configured to disallow central office trunk conferencing in order to prevent indirect connection to the public network.

Electronic Key, 1A2, PABX or Single Line Access

When using the V-2003A/V-2003AHF with an electronic key system, 1A2 key system, PABX, or dedicated single line telephones, the following equipment is required:

- (1) 1 - V-2003A/V-2003AHF Three Zone Paging Unit
- (2) 1 - C. O. Line Circuit (Electronic Key System), 1A2 line position equipped with 400 type card, Loop or Ground Start Trunk Circuit (PABX), a page port with contact closure and DTMF signaling or one or more dedicated single line telephone(s) (Not a station port or extension number)
- (3) Valcom Amplified Speaker Assemblies (Quantity and style determined by specific installation; Valcom 45 Ohm Talkback Speakers may also be used with the V-2003AHF)

Mounting

The V-2003A/V-2003AHF was designed for wall or table mounting. The intended mounting orientation will render the enclosure lid text legible (See Figure 4). Secure the unit to wall studs or a suitable brace away from heat sources or strong magnetic fields (Motors, fans, power supplies, etc.) with the control and terminal strip accessible (A plywood backboard 2' square and at least 1/2" thick attached to wall studs would be considered a suitable brace). Four #10 x 3/4" cross-tip wood screws are included for mounting. Fasten two screws on the mounting surface allowing them to protrude 1/8" to 1/4". Place the chassis of the control unit onto the screwheads at the mounting slots. Position the remaining screws and fasten through the remaining mounting slots. Tighten screws.

Switch Selectable Options

Loop start and ground start access are switch selectable on the V-2003A/V-2003AHF.
SW1: Selects the loop or ground start option for system tip and ring.
SW5: Selects the loop/ground start option for override tip and ring (See Figure 3 for location). A 12-position dip switch is provided for programming zone capabilities. Figures 1 and 3 indicate the function of each dip switch (i.e., the feature it activates).

NOTE: For one-way paging on a V-2003A, the dip switch for the talkback feature on a one-way zone must be set to "Off: (No zone x talkback).

The V-2003A/V-2003AHF requires a power down reset in order to implement dip switch changes (Unplug AC power from the

V-2003A/V-2003AHF for a minimum of 30 seconds then reconnect to effect a dip switch change).

FIGURE 1

SW3	Up (OFF)	Down (ON)
12	No Zone 3 Music	Zone 3 Music
11	No Zone 3 Tones	Zone 3 Tones
10	No Zone 3 Talkback	Zone 3 Talkback
9	No Zone 2 Music	Zone 2 Music
8	No Zone 2 Tones	Zone 2 Tones
7	No Zone 2 Talkback	Zone 2 Talkback
6	No Zone 1 Music	Zone 1 Music
5	No Zone 1 Tones	Zone 1 Tones
4	No Zone 1 Talkback	Zone 1 Talkback
3	System Dial Tone	No System Dial Tone
2	System Ringback Tone*	No System Ringback Tone*
1	System Repeated Alert*	No System Repeated Alert*

* Repeated system alert tone is available only with the V-2003AHF. Ringback tone provides an alert tone over speakers only on handsfree outputs with the V-2003AHF.

Wiring Instructions for Loop or Ground Start Access

A connection block with a 50 pin female amphenol connector must be used to crossconnect speakers and inputs. See Figure 2 for 66 block pinouts.

1. Make certain Battery Feed switch (SW2) is ON (In the Down position, See Figure 3).
2. Ascertain SW1 is in proper position. SW1 should be in the UP position for loop start operation or in the DOWN position for ground start operation.

GROUND START NOTE: When using ground start access, a ground strap must be connected between the telephone system ground and a ground output (+) of the V-2003A/V-2003AHF (See Figure 2).

3. Plug 50-pin female Amphenol connector into J2 of the V-2003A/V-2003AHF.

If a modular cord is used for Tip and Ring connections, connect (J1) RJ11 Tip and Ring to the appropriate C.O. line position of the phone system.

For punchdown block Tip and Ring connections, connect Tip of the telephone system C.O. line position or loop or ground start trunk to the Tip (W/BL) pin and Ring to the (BL/W) of the cross connect block.

Connection of One-Way Amplified Speakers

Using twisted pair telephone wire, connect:

Zone 1 Speaker Tip, Ring	-R/BL, BL/R
Zone 1 Speaker -24VDC	-R/O
Zone 1 Speaker GND	-O/R
Zone 2 Speaker Tip, Ring	-R/G, G/R
Zone 2 Speaker -24VDC	-R/BR
Zone 2 Speaker GND	-BR/R
Zone 3 Speaker Tip, Ring	-R/S, S/R
Zone 3 Speaker -24VDC	-BK/BL
Zone 3 Speaker GND	-BL/BK

NOTE: The V-2003A provides external power of 20 power units (1 Amp of -24VDC) to operate one-way amplified speakers. Additional power supplies are required for a quantity of speakers using power over the 20 power units. The V-2003AHF supplies external power of 10 power units (1/2 Amp at -24VDC) to operate one-way amplified speakers. Additional power supplies are required for a quantity of speakers using power over the 10 power units.

When using additional power supplies, make certain:

- 1) The -24VDC outputs are not connected to each other or to the V-2003A/V-2003AHF.
- 2) Each speaker is connected to only one power source (Talkback speakers do not require power).
- 3) All power supply grounds are connected directly to a copper cold water pipe earth ground. The use of an electrical ground in place of a direct cold water pipe ground may introduce noise into the paging system.

Connection of Talkback Speakers (V-2003AHF Only)

Using twisted pair telephone wire, connect:

Zone 1 Speaker Tip, Ring	-BK/G, G/BK
Zone 2 Speakers Tip, Ring	-BK/BR, BR/BK
Zone 3 Speakers Tip, Ring	-BK/S, S/BK

No more than two (2) 45-Ohm speakers should be connected to any talkback zone. Do not use 8-Ohm speakers.

Wiring Instructions for Page Port Access

A connection block with a 50 pin female amphenol connector must be used to crossconnect speakers and options. See Figure 2 for 66 block pinouts.

When used with page port access, the V-2003A/V-2003AHF may only be used with a 600 Ohm page port that will pass DTMF tones for zone selection and that is equipped with a contact closure. Additionally, the page port must be capable of passing bi-directional audio for talkback operation.

- ___ 1. Make certain Battery Feed Switch (SW2) is OFF (In the UP position, See Figure 3).
- ___ 2. Plug 50-pin female Amphenol connector into J2 of the V-2003A/V-2003AHF.
- ___ 3. Connect Tip and Ring Audio of Page Port to Tip (W/BL) and Ring (BL/W) of the connection block.
- ___ 4. Connect wiring from telephone system Page Port Dry Contact Closure to the W/O, O/W pair of the V-2003A/V-2003AHF connection block.

Power Connections

NOTE: This equipment must be installed near an AC power outlet due to the power cord being used as a disconnect device.

The V-2003A/V-2003AHF is provided with one a NEMA 5-15 cord set for North American use.

Refer to Figure 4 for the voltage selector switch and fuse location. Make certain the voltage selector switch is placed at the appropriate rating and that the proper rated fuse is installed.

- Connect cord set to unit via IEC 320 female connector located on one end of cord set to IEC 320 male appliance couple located on the V-2003A/V-2003AHF.
- **For 115VAC** use, verify fuse rating of 1 Amp and voltage selector switch displays 115V.
- **For 230VAC** use, verify fuse rating of 0.5 Amp and voltage selector switch displays 230V.
- After all required connections have been made, plug the cord set into appropriate AC wall outlet.

V-2003A Volume Adjustments

There are two volume controls on the unit for individual adjustment of:

- Background Music
- Tones (Warble/single tone)

Clockwise adjustment increases volume, counter clockwise decrease volume. During initial set up, adjust individual speaker volume controls to the desired page level first, then adjust volume on page unit to the desired level for music and tones.

V-2003AHF Volume Adjustments

There are five additional volume controls on the V-2003AHF to control the volume of the handsfree talkback outputs. They are:

- Page (Adjusts volume of page during all call on handsfree outputs)
- Speaker to Phone (Adjusts response volume from the speaker; should be turned as low as possible)
- Phone to Speaker (Adjusts volume of a page from phone)
- Background Music (Adjusts background music on handsfree outputs)
- Tones (Adjusts the volume of single and warble tones on handsfree outputs)

Refer to Figure 4 for locations of the volume controls.

One-way Speakers may be connected to low level outputs on the V-2003AHF for zones programmed for one-way paging.

Connections for the V-2003AHF

The V-2003AHF is programmable on a per zone basis for one-way or talkback communication. A single talkback zone may have both one-way and talkback speakers. One-way amplified speakers may be connected to the handsfree output of a zone programmed for talkback to augment the page output on that zone. (NOTE: Only talkback speakers are able to receive reply).

- ___ 1. Using twisted pair telephone wire, connect talkback speakers to the appropriate output (See Figure 3) on the V-2003A/V-2003AHF connection block. Zone 1 speakers connect to the BK-G pair, Zone 2 speakers connect to the BK-BR pair, and Zone 3 speakers connect to the BK-S pair. No more than two (2) 45 Ohm speakers should be connected to any talkback zone. Do not use 8 Ohm speakers.
- ___ 2. Adjust volume controls.

Optional Connections

A. Background Music Connections

Connect the low level (-10 to -18dBm, 8 to 600 Ohms) output of music source to (W/GR) and (GR/W) terminals of the cross connect block. Adjust music volume (Page overrides music).

NOTE: Failure to use a low level music source could cause music crosstalk on zones not receiving music or damage to the Control Unit.

B. Clock Closure (Single Tone) Connections

Time Clock Contact Closure - (V/G), (G/V).
Time clock signaling will override page.

C. UNA Closure (Warble Tone) Connections
Telephone System Night Answer (Contact Closure) - (V/BR), (BR/V). This tone will override music but is overridden by a page.

D. UNA Ringing (Warble Tone) Connections
90VAC Night Answer Ringing - (V/S), (S/V).
These connections will activate a night ring tone.

E. Inhibit Option

If a single line telephone is desired for "meet me answer," a single line "A" lead control telephone and a 5.1K Ω resistor is required. This feature is available only if the unit is accessed through a trunk port. The T & R of the telephone connects to the W/BL pair, the "A1" lead connects to GND (BL/BK), the "A" lead had the 5.1K Ω resistor placed in series, and the resistor terminates on inhibit (BR/W). Inhibit is not a feature of override tip and ring access. Calls currently engaged in a "meet me answer" are not disturbed during the override.

F. Override Connections

Telephone System Page Override - (W/S), (S/W).
Page override can be activated by a vacant C.O. line position, loop start or ground start trunk, or dedicated single line phone.

Make certain SW1 is in correct position for loop or ground start mode of operation.

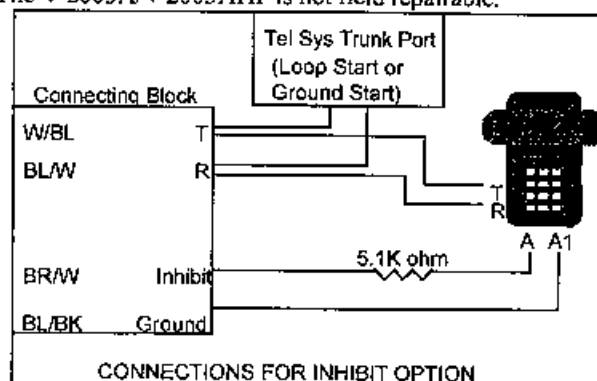
TECHNICAL ASSISTANCE

When trouble is reported, verify that power is being supplied to the unit and there are no broken connections. Check voltages for proper polarity on

the crossconnect block. Table 1 identifies symptoms of some possible problems with solutions. If a spare unit is available, continue to troubleshoot by substituting the spare unit for the suspected defective unit.

Assistance in troubleshooting is available from the factory. When calling, you should have a VOM, a telephone test set, several clip leads available and be calling from the job site. Call (540) 563-2000 and ask for Technical Support or call (540) 767-1555 for Valcom 24-hour Faxback System or visit our website at <http://www.valcom.com>.

The V-2003A/V-2003AHF is not field repairable.



VALCOM equipment contains no user serviceable parts inside. Valcom, Inc. maintains service facilities in Roanoke, VA. Should repairs be necessary, attach a tag indicating company name, address, phone number, contact person and nature of the problem. Send the unit to:

Valcom, Inc.
Repair and Return Dept.
5614 Hollins Road
Roanoke, VA 24019-5056

NOTE: Contact Technical Support (540) 563-2000 for more information on Inhibit Option.

TABLE 1 - TROUBLESHOOTING CHART

SYMPTOMS	SOLUTIONS
1. No output to speakers	<p>A. Monitor for the presence of audio on the page outputs of the V-2003A/V-2003AHF during a page using a butt set. Refer to connection information.</p> <p>B. Check AC line fuse on V-2003A/V-2003AHF.</p> <p>C. Check dip switch settings and perform a power down reset.</p> <p>D. Verify all other switch settings.</p>
2. No music output	<p>A. Monitor for the presence of music audio on the music input terminals using a Butt Set.</p> <p>B. Check music input connector pins on the</p>

V-

3. Programmed feature not functioning	<p>2003A/V-2003AHF 66 connection block for proper termination.</p> <p>C. Check dip switch settings and perform a power down reset.</p> <p>A. Check dip switch settings.</p> <p>B. Reprogram zone, then perform a power down reset.</p>
---------------------------------------	--

VALCOM LIMITED WARRANTY

Valcom, Inc. warrants its products to be free from defects in materials and workmanship under conditions of normal use and service for a period of one year from the date of shipment. The obligation under this warranty shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

1. inspection by Valcom, Inc. indicates the validity of the claim;
2. the defect is not the result of damage, misuse or negligence after the original shipment;
3. the product has not been altered in any way or repaired by others and that factory sealed units are unopened (A service charge plus parts and labor will be applied to units defaced or physically damaged);
4. freight charges for the return of products to Valcom are prepaid;
5. all units 'out of warranty' are subject to a service charge. The service charge will cover minor repairs (Major repairs will be subject to additional charges for parts and labor).

This warranty is in lieu of and excludes all other warranties, expressed or implied, and in no event shall Valcom, Inc. be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, operation or use of the product.

This warranty specifically excludes damage incurred in shipment. In the event a product is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved in accordance with the F.O.B. point.

Headquarters:
Valcom, Inc.
5614 Hollins Road
Roanoke, VA 24019-5056
Phone: (540) 563-2000
FAX: (540) 362-9800

In Canada
CMX Corporation
35 Van Kirk Drive #11 and 12
Brampton, Ontario L7A 1A5
Phone: (905) 456-1072
FAX: (905) 456-2269

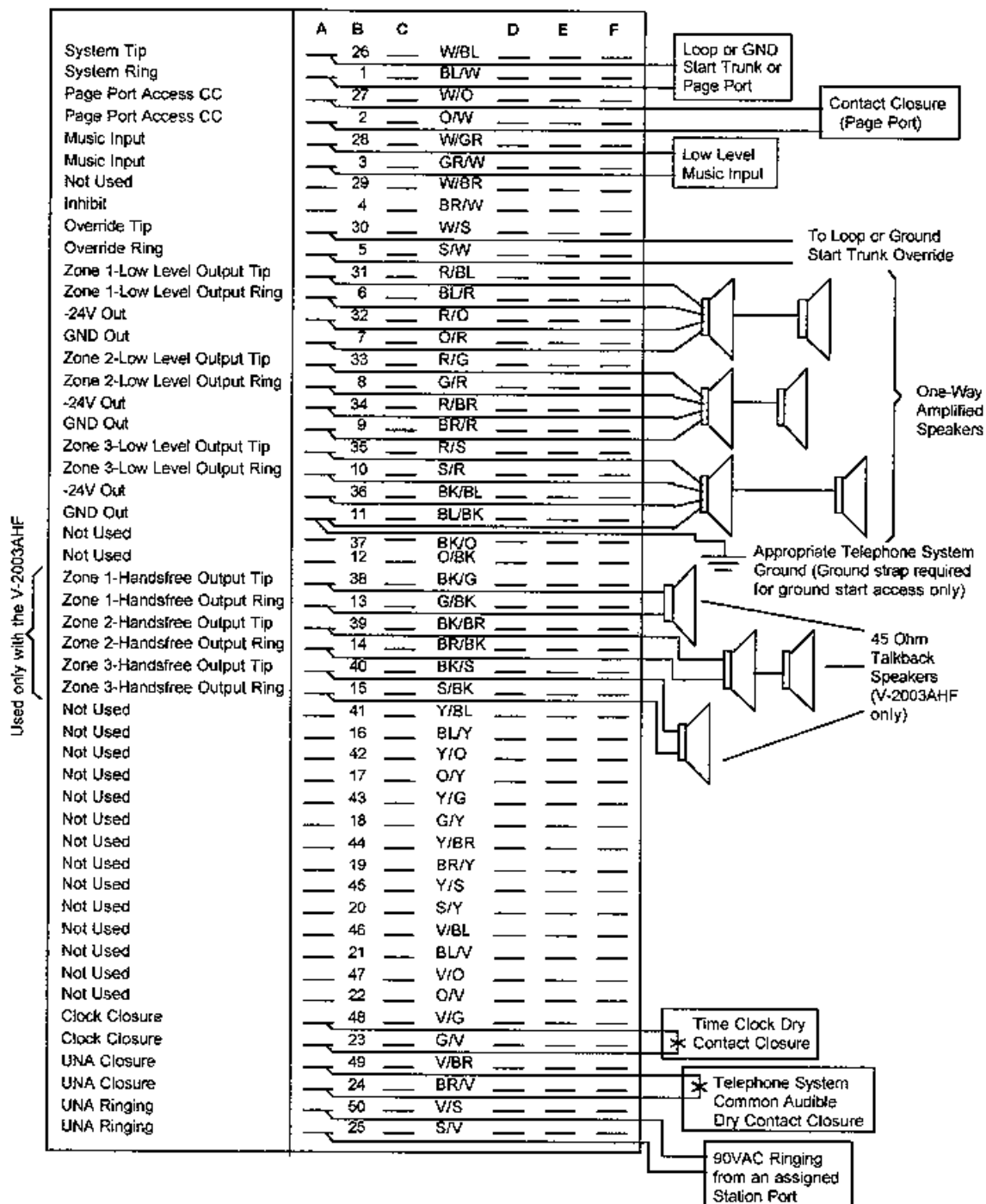


FIGURE 2 - 66 BLOCK CONNECTIONS FOR THE V-2003A AND V-2003AHF

Figure 3
Dip Switches for both units and Volume Controls for the V-2003A

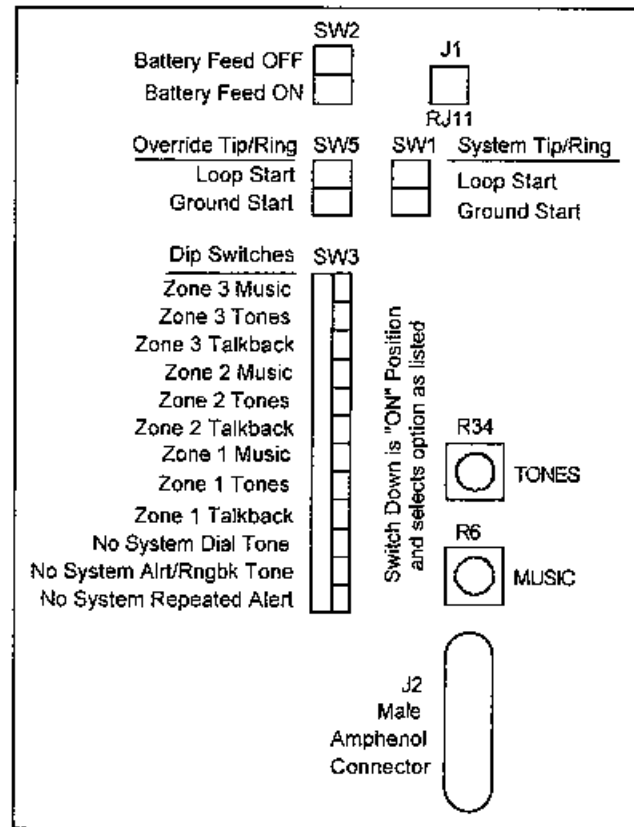
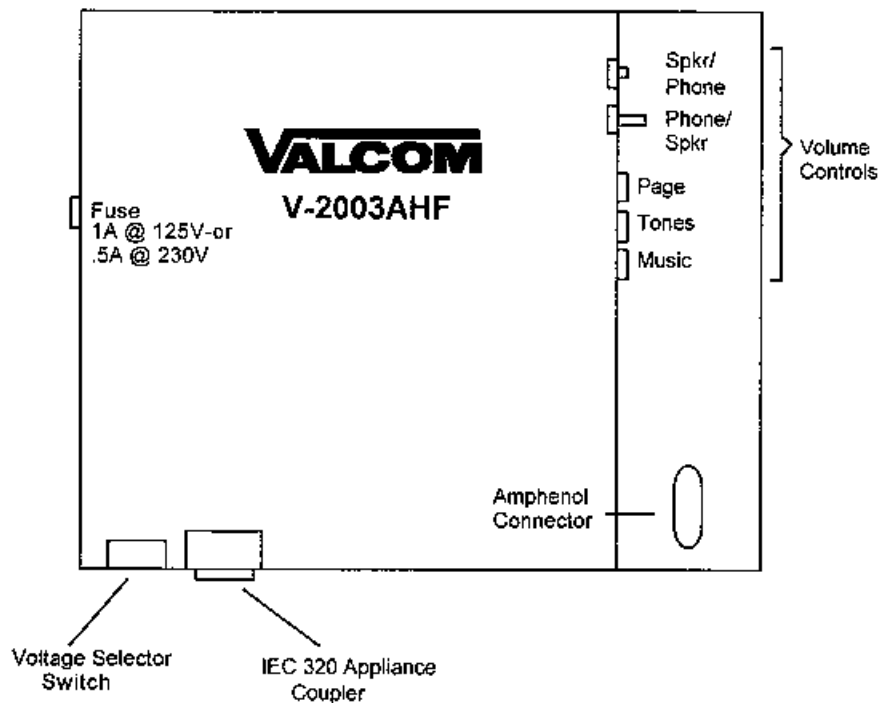
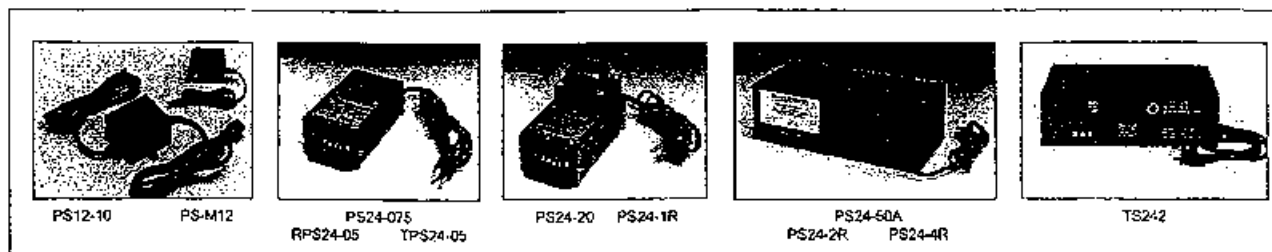


Figure 4
Enclosure Orientation and Volume Controls for the V-2003AHF





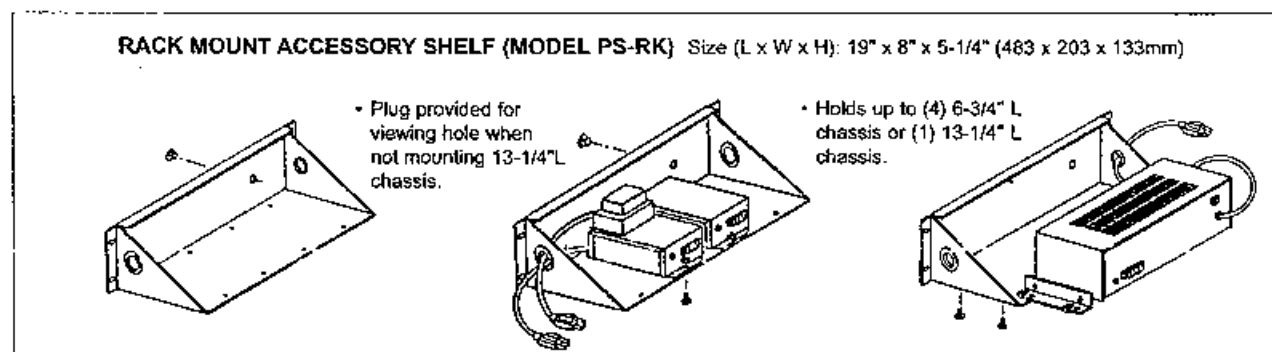
HEAVY DUTY UNREGULATED POWER SUPPLIES

MODEL	INPUT	OUTPUT (NOMINAL)	RIPPLE @ FULL LOAD	REGULATION 0 - FULL LOAD	PILOT LAMP	FUSE	SIZE L x W x H	WEIGHT
PS-M12	120 VAC 60 Hz, 5 W	12 VDC 200mA Amp	Less Than 2.5%	16.5-11.5V	-	-	1-1/2" x 1-1/2" x 2-1/8" (38 x 38 x 56mm)	.8 lb (.4 kg)
PS12-10	105 - 130 VAC 60 Hz, 20 W	12 VDC 1 Amp	Less Than 7.5%	16.5-11.5V	-	-	3" x 2-5/8" x 2-1/4" (76 x 66 x 58mm)	1.3 lb (.6 kg)
PS24-075	117 VAC 60 Hz, 26 W	24 VDC 3/4 Amp	Less Than 1.5%	26-22 V	-	Primary	6-3/4" x 3-5/8" x 2" (171 x 92 x 51mm)	3.5 lb (1.6 kg)
PS24-20	117 VAC 60 Hz, 70 W	24, 12, 6 VDC 2 Amps	Less Than 2.5%	27-22 V	-	Primary	6-3/4" x 3-5/8" x 4" (171 x 92 x 102mm)	4.5 lb (2.0 kg)
PS24-50A	117 VAC 60 Hz, 170 W	24 VDC 5 Amps	Less Than 2.5%	29-23 V	X	Primary Secondary	13-1/4" x 6-1/4" x 4-3/4" (337 x 159 x 121mm)	15 lb (6.8 kg)
TS242	105-125 VAC 60 Hz, 74 W	24 VDC 2 Amp	Less Than 0.5%	28 - 22.4 V	X	Primary Secondary	3-7/8" x 10-7/8" x 6" (99 x 276 x 152mm)	10 lb (4.5 kg)

REGULATED POWER SUPPLIES

MODEL	INPUT	OUTPUT (NOMINAL)	RIPPLE @ FULL LOAD	REGULATION 0 - FULL LOAD	PILOT LAMP	FUSE	SIZE L x W x H	WEIGHT
RPS24-05	117 VAC 60 Hz, 26 W	24 VDC 1/2 Amp	.5 mV	500 mV	-	Primary Secondary	6-3/4" x 3-5/8" x 2" (171 x 92 x 51mm)	3 lb (1.4 kg)
PS24-2R	105-125 VAC 60 Hz, 110 W	24 VDC 2 Amps	.5mV	500 mV	X	Primary Secondary	13-1/4" x 6-1/4" x 4-3/4" (337 x 159 x 121mm)	15.5 lb (7.0 kg)
PS24-4R	105-125 VAC 60 Hz, 210 W	24 VDC 4 Amps	1mV	300 mV	X	Primary Secondary	13-1/4" x 6-1/4" x 4-3/4" (337 x 159 x 121mm)	16.5 lb (7.5 kg)
*TPS24-05	117 VAC 60 Hz, 26 W	24 VDC 1/2 Amp Talk Line	.5 mV	500 mV	-	Primary	6-3/4" x 3-5/8" x 2" (171 x 92 x 51mm)	3 lb (1.4 kg)

* For use with telephone intercom stations. See SL8-1434.



ARCHITECTS AND ENGINEERS' SPECIFICATIONS

Power supply shall be Atlas/Soundolier Model _____. It shall be capable of supplying _____ amps at _____ volts. Ripple shall be _____ at full load. Primary circuit shall be protected by (fuse, circuit breaker). Mounting provisions shall be integral to the chassis design. Size shall be _____.



ATLAS / SOUNDOLIER ATAPCO SECURITY & COMMUNICATIONS GROUP

1859 INTERTECH DRIVE / FENTON, MISSOURI 63026 U.S.A. / TELEPHONE: (314) 349-3110 / FAX: (314) 349-1251

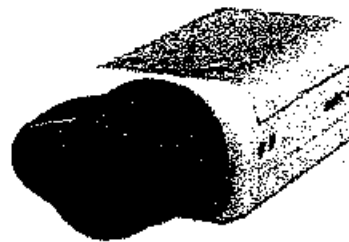
SL5-1425

SANYO

High Sensitivity
B&W Camera
VCB-3424

- More than 400 lines of resolution
- Minimum sensitivity down to 0.07 lux
- 24 volt AC operation with line lock
- Built-in mirror image effect
- Lens optional

[Download VCB-3424 Product Sheet \(pdf\)](#)



Bid Spec**1.0 Description**

The black and white video camera described shall be a Sanyo Model number VCB-3424 or equivalent. The Camera described shall be an industrial grade high sensitivity black and white video camera.

2.0 Bid Specifications

The black and white video camera shall incorporate an interline transfer method 1/3" charge coupled device (CCD) with approx. 270,000 picture elements (542Hx492V). This camera shall produce a picture with more than 400 lines of resolution and have a minimum light requirement of 0.07 lux with F1.2 lens and a S/N ratio of more than 50dB. The video output level shall be 1.0Vp-p (75 ohms, composite) with a BNC type connection.

The camera shall be C-mount and CS-mount selectable with a C mount adapter (included). The camera shall include (1) mounting bracket (1/4"-20UNC) which can be mounted either on the top or the bottom of the camera. The video camera shall have an auto iris connector on the side of the camera body to permit connection of DC: iris control coil only type lenses (galvanometric iris without amplifier type) and VIDEO: DC power and video signal supply auto-iris type lenses (with amplifier type) type lenses.

The video camera shall have an available Backlight compensation circuit, Electronic/Auto Iris and Flange back adjustment. The video camera shall have a mirror effect feature for reverse angle viewing.

The camera shall not exceed a dimension of 2.2" x 1.77" x 3.92" (56x45x99.5mm)(w/o lens mount and camera mount) and weigh no more than 330 grams. Power requirements for the video camera shall be 24V (±4V), 60Hz, 1.4W min (w/o Auto Iris lens). The video camera shall have an LED type indicator to indicate the presence of power. The video camera shall be constructed of a durable metal cabinet and shall be magnetic and electrostatically shielded. The camera shall feature solid state components to resist shock and vibration. The video camera shall be ISO9001 certified and UL listed.

3.0 Minimum Performance Specifications

Specifications	
MODEL	VCB-3424
Scanning system	EIA Standard:525 lines, 30 frames/sec
Image device	Interline transfer method CCD
Image size	1/3" (Approx. 4.8mm x 3.6mm)
Picture element	542(H)x492(V):All picture elements 512(H)x492(V):Effective picture elements
Optical blank element	Horizontal 2:in front, 28:in back
Unit (pixel) cell size	9.6(H) x 7.5(V) μ m
Geometry	No geometric distortion
Synchronizing system	Line lock
Interlace	PLL2:1 interlace
Resolution	Horizontal 400 TV lines Vertical 350 TV lines
Video output level	1.0Vp-p(75 Ω , composite)

Video S/N ratio	More than 50dB
Minimum Illumination	Scene: 0.1 lux(F1.4 lens), 0.07 lux(F1.2 lens) Imager: 0.01 lux
Gamma correction	0.45 fixed
Backlight compensation	ON/OFF, Manual switching, center zone light measuring system (activates when used with auto-iris lens)
Lens mount	CS mount (C mount: Using C-mount adapter supplied)
Flange back adjustment	12.5mm -0.8 to +0.8mm
Camera mount	" - 20 UNC x 2 (Top/Bottom)
Control	V Phase adjustment LINE PHASE VR Rear Lens Iris level LEVEL: L, H VR Side Electronic Iris E.I.: ON/OFF SLIDE SW Side Backlight ON/OFF SLIDE SW Side
Sockets	Video VIDEO OUT BNC Lens LENS OUT 4-pin Power Supply 24V AC, GND 3-pin terminal
Electronic Iris Range	0.07 lux to 42,000 lux (F1.2 lens) 0.1 lux to 57,000 lux (F1.4 lens) 0.4 lux to 228,000 lux (F2.8 lens)
Light control	Electronic iris (indoor use) or optional auto iris lens
Auto iris output and connection	DC: iris control coil only type lens (Galvenometric iris without amplifier type) Drive Coil (+-), Brake Coil (+-), Ground Socket Pin No.1 Brake Coil- Socket Pin No.2 Brake Coil+ Socket Pin No.3 Drive Coil+ Socket Pin No.4 Drive Coil- VIDEO: DC Power and Video signal supply auto-iris type lens (with amplifier type) +12V DC (MAX 50mA), Video(High impedance), Ground Socket Pin No.1 +12V DC (50mA max) Socket Pin No.2 Not Used Socket Pin No.3 Video Out(1Vp-p Hi impedance) Socket Pin No.4 GND (Video signal and DC)
Environmental Conditions	Operating: Temperature: 14° to 122°F Humidity: Within 90% relative humidity Storage: Temperature -4° to 158°F Humidity Within 70% relative humidity
Power Indicator	LED
Power Requirement	24V AC (-4 to +4V), 60Hz
Power consumption	1.4W (w/o auto iris lens)
Size (WxHxD)	56x45x99.5mm (2.2"x1.77"x3.92") (w/c lens mount and camera mount)
Weight	.73lb (330g)

*Note all non-metric specifications are approximate.

SANYO INDUSTRIAL VIDEO CAMERA WARRANTY DURATION

LABOR	IMAGE DEVICE	PARTS
3 Years	5 Years	3 Years

1/2" Fixed Focal Length, Video Auto-Iris

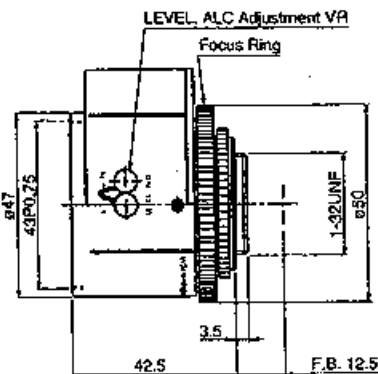
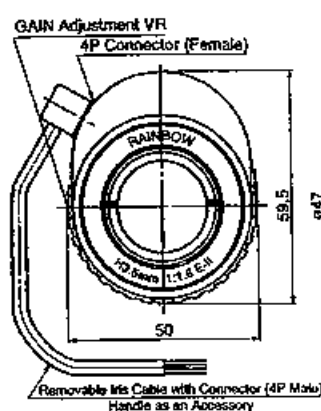
Rainbow CCTV

1.3.5 1.6E-II/CS

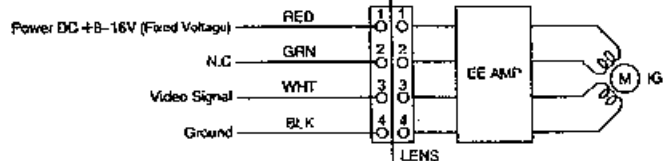
3.5mm F1.6 – CS-Mount

Compatible with 1/2", 1/3" & 1/4" Cameras

Focal Length:	3.5mm
Max. Relative Aperture:	1:1.6
Iris:	F1.6~Approx. F88 With ND Spot Filter
Angular Field of View:	1/2": 84.9° × 68.9° 1/3": 68.9° × 54.4° 1/4": 68.2° × 51.5°
Min. Object Distance (M.O.D.):	0.2m (From Front Vertex)
Optical Back Focal Distance:	11.45mm (In Air)
Operation:	Focus: Manual Iris: Auto (DC+8~16V: Fixed Voltage, Max. 40mA) Auto-Close System Speed Within 4 sec.
Auto-Iris Accuracy:	With Input Video Signal 0.7Vp-p Within ±10% of Mean Value
Auto-Iris Input Signal:	Composite Video Signal or Video Signal
Input Impedance:	High Impedance
Sensitivity Adjustment:	Image Signal Level 0.5~1.5Vp-p
Operation Temperature:	-10 ~ +50°C (+14 ~ 122° F)
Filter Size:	43mm P0.75
Mount:	CS-Mount, (Adjustable Lens Position)
Size, Approx. Weight:	50 × 59.5 × 42.5mm (w/h/d), 85g (Approx. 2.0 × 2.3 × 1.7in., 3.0 oz.)



Removable Iris Cable (4-Core)

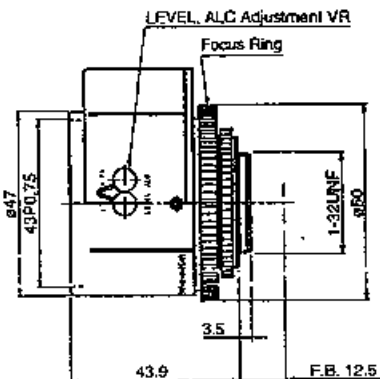
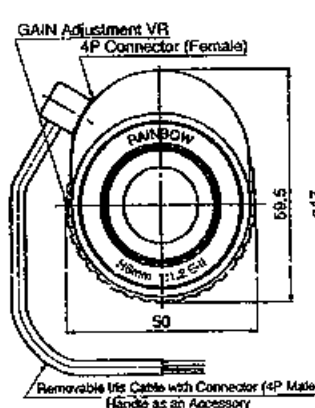


H6 1.2E-II/CS

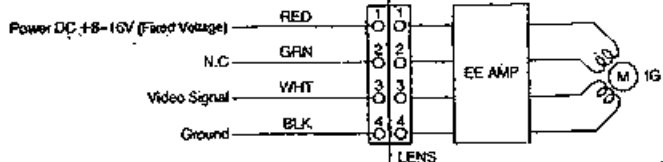
6mm F1.2 – CS-Mount

Compatible with 1/2", 1/3" & 1/4" Cameras

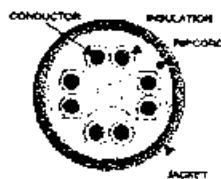
Focal Length:	6mm
Max. Relative Aperture:	1:1.2
Iris:	F1.2~Approx. F360 With ND Spot Filter
Angular Field of View:	1/2": 56.1° × 43.6° 1/3": 43.6° × 33.4° 1/4": 33.4° × 25.4°
Min. Object Distance (M.O.D.):	0.2m (From Front Vertex)
Optical Back Focal Distance:	12.12mm (In Air)
Operation:	Focus: Manual Iris: Auto (DC+8~16V: Fixed Voltage, Max. 40mA) Auto-Close System Speed Within 4 sec.
Auto-Iris Accuracy:	With Input Video Signal 0.7Vp-p Within ±10% of Mean Value
Auto-Iris Input Signal:	Composite Video Signal or Video Signal
Input Impedance:	High Impedance
Sensitivity Adjustment:	Image Signal Level 0.5~1.5Vp-p
Operation Temperature:	-10 ~ +50°C (+14 ~ 122° F)
Filter Size:	43mm P0.75
Mount:	CS-Mount, (Adjustable Lens Position)
Size, Approx. Weight:	50 × 59.5 × 43.9mm (w/h/d), 85g (Approx. 2.0 × 2.3 × 1.7in., 3.0 oz.)



Removable Iris Cable (4-Core)



LANmark-350 UTP, 4 Pair Enhanced Category 5e Horizontal Cable



Construction

0.52 mm (24 AWG), bare copper wire insulated with polyethylene (non-plenum) or FEP (plenum). Two insulated conductors twisted together to form a pair and four such pairs laid up to form the basic unit jacketed with flame-retardant PVC.

Standards

North American	ANSI/TIA/EIA-568-A-5
International	Category 5e, Category 5
European	ISO/IEC 11801 Category 5 EN 50173

Flame Rating

Non-Plenum	UL 1666, CMR, CMG, IEC 332-1
Plenum	UL 910, CMP
Patch	UL 1581, CM, CMG, IEC 332-1

Applications

Berk-Tek's LANmark-350 Enhanced Category 5e UTP cable is intended for high speed data applications up to 350 MHz including:

ATM 155 Mb/s,
ANSI X3.263
100 Mb/s
Ethernet 10BASE-T, 100BASE-TX,
1000BASE-T
Token Ring 4/16

Berk-Tek's LANmark-350 Enhanced Category 5e UTP cables are designed to meet the most advanced UTP horizontal cable applications. Tested up to 350 MHz, the guaranteed performance of this cable far exceeds the ANSI/TIA/EIA-568-A-5 and ISO/IEC 11801 horizontal cable requirements for PS-NEXT, attenuation, structural return loss, attenuation to crosstalk ratio (ACR) and impedance, making it ideal for high-end transmission links supporting the most sophisticated networking protocols.

Features

- ACR, PS-NEXT, Attenuation, SRL are specified and tested to 350 MHz
- Guaranteed 0.5:2.0 dB better RL than Category 5e standard
- Guaranteed 6 dB PS-NEXT performance over Category 5 backbone requirements
- ETL verified to TIA/EIA-568-A-5 and ISO/IEC 11801

Benefits

- Warranted, trouble-free cabling installation and maintenance
- Simplified structured cabling solution preserves long-term network investment
- Reduced installation costs and maintenance
- Enhanced bandwidth cable system
- Lower Bit Error Rates, increases network efficiency and uptime

LANmark-350, UTP, 4 Pair, Enhanced Category 5e, Horizontal and Patch Cables

Technical data-physical

	CMR	CMP	CM (Patch)*
Conductor diameter-in. (mm)	.020 (0.52)	.020 (0.52)	.024 (0.61)
Cable diameter-in. (mm)	.187 (4.8)	.165 (4.2)	.215 (5.5)
Nominal cable weight-lb./ft. (kg./km)	22 (33)	21 (31)	23 (34.5)
Max. installation tension-lb. (N)	25 (110)	25 (110)	25 (110)
Min. bend radius-in. (mm)	1.0 (25.4)	1.0 (25.4)	1.0 (25.4)

* Patch cables utilize stranded tinned copper conductors.

Color code

Pair 1 White/Blue	Blue
Pair 2 White/Orange	Orange
Pair 3 White/Green	Green
Pair 4 White/Brown	Brown

Technical data-electrical (Patch cable values appear in parentheses)

Horizontal									
Frequency	SR	RL	Attenuation	PS-NEXT	NEXT	ACR	PS-ACR	ELFEXT	PS-ELFEXT
MHz	dB/100 m	dB	dB	dB	dB	dB	dB	dB	dB
	min.	min.	max.	min.	worst pair	min.	min.	min.	min.
1	25.5 (25.5)	20.0 (20.0)	2.0 (2.4)	68 (68)	70 (70)	68.3 (-)	66.3 (-)	67 (64)	63 (63)
4	25.5 (25.5)	23.3 (23.3)	4.0 (4.8)	59 (59)	61 (61)	57.3 (-)	55.3 (-)	55 (55)	52 (52)
10	25.5 (25.5)	25.5 (25.5)	6.4 (7.7)	53 (53)	55 (55)	48.9 (-)	46.9 (-)	47 (47)	44 (44)
16	25.5 (25.5)	25.5 (25.5)	8.1 (9.7)	50 (50)	52 (52)	44.1 (-)	42.1 (-)	43 (43)	40 (40)
20	25.5 (25.5)	25.5 (25.5)	9.2 (11.0)	48 (48)	50 (50)	41.6 (-)	39.6 (-)	41 (41)	38 (38)
31.25	24.4 (24.4)	24.4 (24.4)	11.6 (13.9)	45 (45)	47 (47)	36.3 (-)	34.3 (-)	37 (37)	34 (34)
62.5	22.7 (22.7)	22.7 (22.7)	16.8 (20.2)	41 (41)	45 (43)	26.6 (-)	24.6 (-)	31 (31)	28 (28)
100	21.5 (21.5)	21.5 (21.5)	21.7 (26.0)	38 (38)	40 (40)	18.6 (-)	16.6 (-)	27 (27)	24 (24)
155	20.4 (20.4)	20.4 (20.4)	27.7 (33.2)	35 (35)	37 (37)	9.7 (-)	7.7 (-)	23 (23)	20 (20)
200	19.8 (19.8)	19.8 (19.8)	32.1 (38.5)	33 (33)	35 (35)	3.7 (-)	1.7 (-)	21 (21)	18 (18)
300	18.8 (18.8)	18.8 (18.8)	40.5 (48.6)	31 (31)	33 (33)	- (-)	- (-)	- (-)	- (-)
350	18.4 (18.4)	18.4 (18.4)	44.4 (53.3)	30 (30)	32 (32)	- (-)	- (-)	- (-)	- (-)

LANmark-350, UTP, 4 Pair, Enhanced Category 5e, Horizontal and Patch Cables

Parametric Measurements

	Horizontal	Patch
Mutual Capacitance	4.4 nF/100 m nom.	4.4 nF/100 m nom.
DC resistance	9.38 Ohms/100 m max.	9.09 Ohms/100 m max.
Skew	25 ns/100 m max.	25 ns/100 m max.
Pair to ground Unbalance	330 pF/100 m max.	330 pF/100 m max.
Velocity of Propagation	70% nom. NonPlenum 72% nom. Plenum	70% nom.
Characteristic/Input Impedance	100 ± 14% 0.772-100 MHz 100 ± [14+15log($\frac{f}{100}$)] 100-500 MHz ISO/IEC 11801	100 ± 14% 0.772-100 MHz 100 ± [14+15log($\frac{f}{100}$)] 100-500 MHz

Temperature rating

Installation	0°C to +50°C
Operation	-10°C to +60°C



Part numbers—Enhanced Category 5e

No. Pairs	Part Number	Jacket	Flame Rating	Jacket Color
4	530463	PVC	CMR Riser	Yellow
4	530529	PVC	CMR Riser	Blue
4	530538	PVC	CMR Riser	White
4	530577	PVC	CMR Riser	Gray
4	540350	PVC	CM Patch	Yellow
4	540354	PVC	CM Patch	Blue
4	540357	PVC	CM Patch	White
4	540358	PVC	CM Patch	Red
4	540359	PVC	CM Patch	Green
4	540360	PVC	CM Patch	Gray
4	230600	PVC Alloy	CMP Plenum	Yellow
4	230645	PVC Alloy	CMP Plenum	Blue
4	230670	PVC Alloy	CMP Plenum	White
4	230674	PVC Alloy	CMP Plenum	Gray

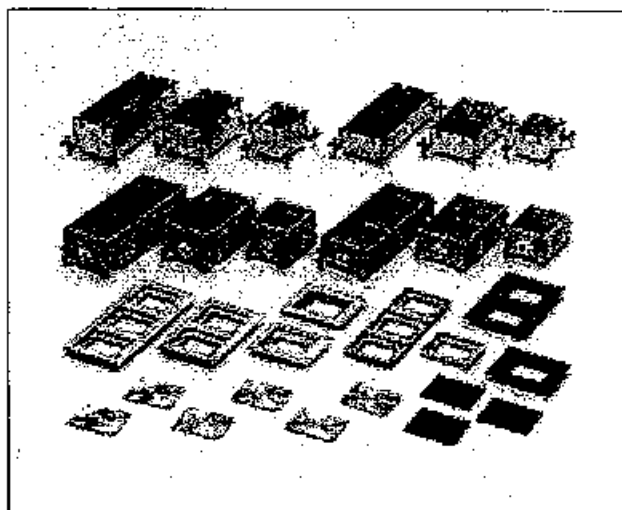
Note: Standard Length: 1,000 feet (305 meters.) Specifications subject to change without notice.
Low Smoke Zero Halogen cables available. Other jacket colors available.

Omnibox™ Floor Box Series, An Excellent Multiple Service Solution

CATEGORY 5e



The Omnibox Floor Box Series provides an excellent activation solution when multiple services are required in open space areas. The Omnibox Floor Box Series brings multiservice wiring solutions directly to the workstation. This floor box series is the most versatile in the industry offering one-, two-, and three-gang multiservice boxes to meet the workstation needs of today's applications. It provides an above grade application with a cast iron box; and provides an above grade solution with a stamped steel version. This floor box series also offers a shallow version to meet the needs of a shallower concrete pour. Fully adjustable before and after the concrete pour, the Omnibox Floor Box Series makes installation less complicated. This floor box series has flush activation covers (brass or nonmetallic) that give an aesthetic appearance that will please any architect or building owner. With the use of the Interlink Activate™ Connectivity System, the Omnibox Floor Box Series offers a wide variety of communication options. This floor box series has many applications, some of which are schools, financial institutions, and commercial office buildings.



Omnibox Multiservice Floor Box Series.

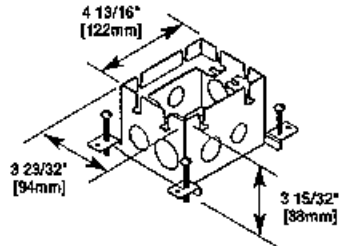
Features & Benefits

- **Fully adjustable box.** Before and after concrete pour adjustability. Lower installed cost.
- **Concrete-tight stamped steel construction.** Lower cost option for above grade applications.
- **Available in one-, two-, and three-gang configurations.** Can remove divider for greater capacity. Supports multiservice applications.
- **Available in two depths.** Provides economical alternative when pour depths are limited.
- **Flush activation assemblies for carpet and tile.** Aesthetically pleasing assemblies are interchangeable for both cast iron and stamped steel.
- **Watertight cast iron construction.** Meets requirements for on grade or below grade application.
- **Interlink Activate UTP, coaxial, audio, and fiber optic inserts.** A wide variety of media interface inserts to ensure a reliable, cost effective activation for today's most demanding communication system designs.

Steel Omnibox Floor Box Ordering Information

Item

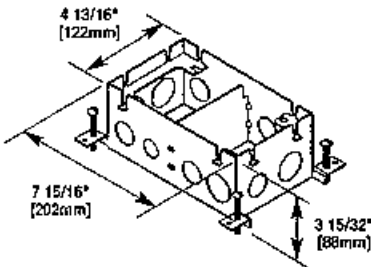
Catalog No./Description/Specifications



880S1 One-Gang Steel Floor Box, Fully Adjustable – 3 15/32" [88mm] H x 4 13/16" [122mm] W x 3 23/32" [94mm] L

Technical Specifications

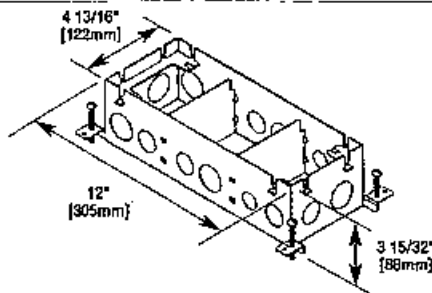
Conduit Openings	Cubic Inch Capacity	Adjustment Before Pour	Adjustment After Pour
(3) 1/2" [12.7mm], (5) 3/4" [19.1mm] (2) 1" [25mm]	53	1 3/4" [44mm]	1/2" [12.7mm]



880S2 Two-Gang Steel Floor Box, Fully Adjustable – 3 15/32" [88mm] H x 4 13/16" [122mm] W x 7 15/16" [202mm] L

Technical Specifications

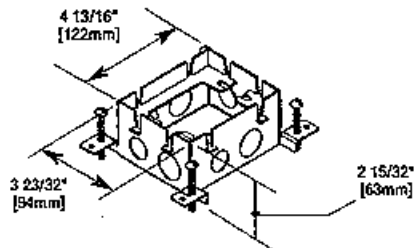
Conduit Openings	Cubic Inch Capacity	Adjustment Before Pour	Adjustment After Pour
(4) 1/2" [12.7mm], (8) 3/4" [19.1mm] (4) 1" [25mm]	117 (56/59)	1 3/4" [44mm]	1/2" [12.7mm]



880S3 Three-Gang Steel Floor Box, Fully Adjustable – 3 15/32" [88mm] H x 4 13/16" [122mm] W x 12" [305mm] L

Technical Specifications

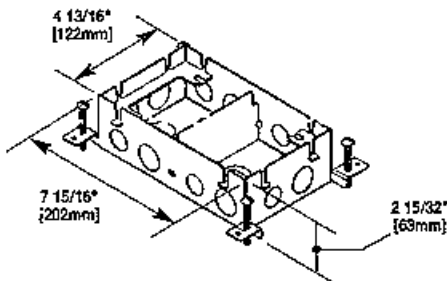
Conduit Openings	Cubic Inch Capacity	Adjustment Before Pour	Adjustment After Pour
(6) 1/2" [12.7mm], (11) 3/4" [19.1mm] (6) 1" [25mm]	180 (56/68/56)	1 3/4" [44mm]	1/2" [12.7mm]



880M1 One-Gang Shallow Steel Floor Box, Fully Adjustable – 2 15/32" [63mm] H x 4 13/16" [122mm] W x 3 23/32" [94mm] L

Technical Specifications

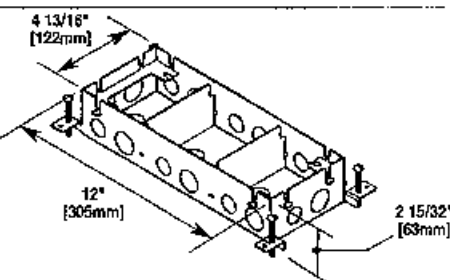
Conduit Openings	Cubic Inch Capacity	Adjustment Before Pour	Adjustment After Pour
(6) 1/2" [12.7mm] (5) 3/4" [19.1mm]	37	1 3/4" [44mm]	1/2" [12.7mm]



880M2 Two-Gang Shallow Steel Floor Box, Fully Adjustable – 2 15/32" [63mm] H x 4 13/16" [122mm] W x 7 15/16" [202mm] L

Technical Specifications

Conduit Openings	Cubic Inch Capacity	Adjustment Before Pour	Adjustment After Pour
(8) 1/2" [12.7mm] (8) 3/4" [19.1mm]	80 (40/40)	1 3/4" [44mm]	1/2" [12.7mm]

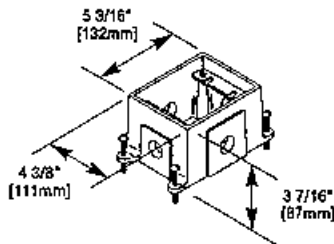
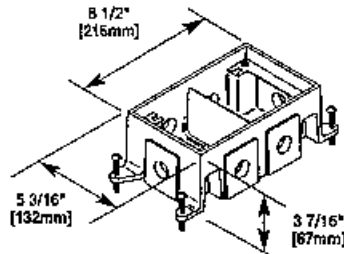
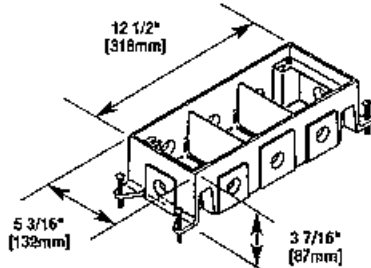
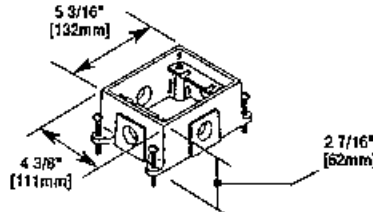
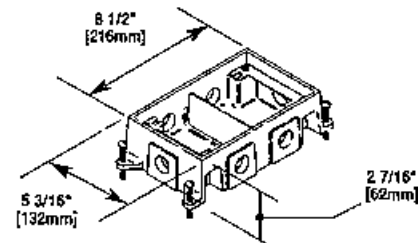
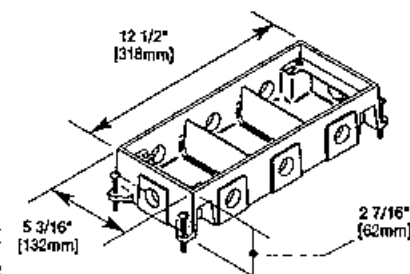


880M3 Three-Gang Shallow Steel Floor Box, Fully Adjustable – 2 15/32" [63mm] H x 4 13/16" [122mm] W x 12" [305mm] L


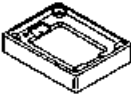


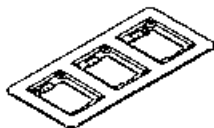
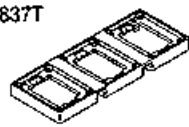


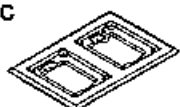
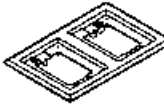
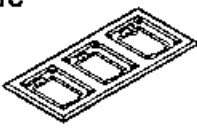
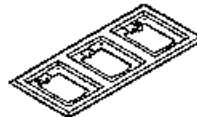
Technical Specifications

Conduit Openings	Cubic Inch Capacity	Adjustment Before Pour	Adjustment After Pour
(11) 1/2" [12.7mm] (11) 3/4" [19.1mm]	126 (39/48/39)	1 3/4" [44mm]	1/2" [12.7mm]

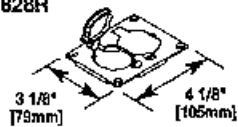
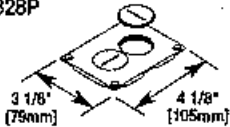
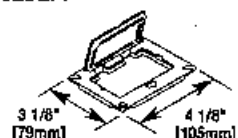

Cast Iron Omnibox Floor Box Ordering Information

Item	Catalog No./Description/Specifications			
	880CS1-1	One-Gang Cast Iron Floor Box, Fully Adjustable – 3 7/16" [87mm] H x 5 3/16" [132mm] W x 4 3/8" [111mm] L		
	880CS2-1	Two-Gang Cast Iron Floor Box, Fully Adjustable – 3 7/16" [87mm] H x 5 3/16" [132mm] W x 8 1/2" [216mm] L		
	880CS3-1	Three-Gang Cast Iron Floor Box, Fully Adjustable – 3 7/16" [87mm] H x 5 3/16" [132mm] W x 12 1/2" [318mm] L		
	880CM1-1	One-Gang Shallow Cast Iron Floor Box, Fully Adjustable – 2 7/16" [62mm] H x 5 3/16" [132mm] W x 4 3/8" [111mm] L		
	880CM2-1	Two-Gang Shallow Cast Iron Floor Box, Fully Adjustable – 2 7/16" [62mm] H x 5 3/16" [132mm] W x 8 1/2" [216mm] L		
	880CM3-1	Three-Gang Shallow Cast Iron Floor Box, Fully Adjustable – 2 7/16" [62mm] H x 5 3/16" [132mm] W x 12 1/2" [318mm] L		
Technical Specifications				
Conduit Openings	Cubic Inch Capacity	Adjustment Before Pour	Adjustment After Pour	
(4) 1" [25mm]	48	1 3/4" [44mm]	1/2" [12.7mm]	
Technical Specifications				
Conduit Openings	Cubic Inch Capacity	Adjustment Before Pour	Adjustment After Pour	
(6) 1" [25mm]	94 (45/49)	1 3/4" [44mm]	1/2" [12.7mm]	
Technical Specifications				
Conduit Openings	Cubic Inch Capacity	Adjustment Before Pour	Adjustment After Pour	
(8) 1" [25mm]	160 (53/54/53)	1 3/4" [44mm]	1/2" [12.7mm]	
Technical Specifications				
Conduit Openings	Cubic Inch Capacity	Adjustment Before Pour	Adjustment After Pour	
(4) 1" [25mm]	34	1 3/4" [44mm]	1/2" [12.7mm]	
Technical Specifications				
Conduit Openings	Cubic Inch Capacity	Adjustment Before Pour	Adjustment After Pour	
(6) 1" [25mm]	76 (35/40)	1 3/4" [44mm]	1/2" [12.7mm]	
Technical Specifications				
Conduit Openings	Cubic Inch Capacity	Adjustment Before Pour	Adjustment After Pour	
(8) 1" [25mm]	118 (39/40/39)	1 3/4" [44mm]	1/2" [12.7mm]	

Walker Floor Box Cover Plate Flanges

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
817B 	One-Gang Brass Combination Carpet and Tile Flange – 5 1/16" [129mm] L x 6 1/16" [154mm] W. For use on 880S1, 880M1, 880CS1-1, and 880CM1-1 Floor Boxes. Accepts the Interlink Activate 6A mini adapter bezel (AC-MAB).	817T 	One-Gang Brass Tile Flange – 3 1/2" [89mm] L x 4 1/2" [114mm] W. For use on 880S1, 880M1, 880CS1-1, and 880CM1-1 Floor Boxes.
827B 	Two-Gang Brass Combination Carpet and Tile Flange – 9 3/16" [233mm] L x 6 1/16" [154mm] W. For use on 880S2, 880M2, 880CS2-1, and 880CM2-1 Floor Boxes. Accepts the Interlink Activate 6A mini adapter bezel (AC-MAB).	827T 	Two-Gang Brass Tile Flange – 7 5/8" [194mm] L x 4 1/2" [114mm] W. For use on 880S2, 880M2, 880CS2-1, and 880CM2-1 Floor Boxes.
837B 	Three-Gang Brass Combination Carpet and Tile Flange – 13 5/16" [338mm] L x 6 1/16" [154mm] W. For use on 880S3, 880M3, 880CS3-1, and 880CM3-1 Floor Boxes. Accepts the Interlink Activate 6A mini adapter bezel (AC-MAB).	837T 	Three-Gang Brass Tile Flange – 11 3/4" [298mm] L x 4 1/2" [114mm] W. For use on 880S3, 880M3, 880CS3-1, and 880CM3-1 Floor Boxes.
817C 	One-Gang Brass Carpet Flange – 4 3/4" [121mm] L x 5 3/4" [146mm] W. For use on 880S1, 880M1, 880CS1-1, and 880CM1-1 Floor Boxes.	817PCC-BLK 817PCC-BRN 	One-Gang Nonmetallic Carpet Flange – Available in black or brown. 4 3/4" [121mm] L x 5 3/4" [146mm] W. Accepts the Interlink Activate 6A mini adapter bezel (AC-MAB). For use on 880S1, 880M1, 880CS1-1, and 880CM1-1 Floor Boxes.
827C 	Two-Gang Brass Carpet Flange – 8 7/8" [225mm] L x 5 3/4" [146mm] W. For use on 880S2, 880M2, 880CS2-1, and 880CM2-1 Floor Boxes.	827PCC-BLK 827PCC-BRN 	Two-Gang Nonmetallic Carpet Flange – Available in black or brown. 8 7/8" [225mm] L x 5 3/4" [146mm] W. Accepts the Interlink Activate 6A mini adapter bezel (AC-MAB). For use on 880S2, 880M2, 880CS2-1, and 880CM2-1 Floor Boxes.
837C 	Three-Gang Brass Carpet Flange – 13" [330mm] L x 5 3/4" [146mm] W. For use on 880S3, 880M3, 880CS3-1, and 880CM3-1 Floor Boxes.	837PCC-BLK 837PCC-BRN 	Three-Gang Nonmetallic Carpet Flange – Available in black or brown. 13" [330mm] L x 5 3/4" [146mm] W. Accepts the Interlink Activate 6A mini adapter bezel (AC-MAB). For use on 880S3, 880M3, 880CS3-1, and 880CM3-1 Floor Boxes.

Walker Floor Box Cover Plates

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
828R 	Brass Duplex Cover Plate – Flip lids. Can also be used with a 106 type communication bezel, Interlink Activate AC-DP106.	828P 	Brass Duplex Cover Plate – Screw plugs. Screw plugs are 1 1/2" [38mm] in diameter.
828GFI 	Brass GFI Cover Plate – May be used with Interlink Activate Connectivity System in conjunction with the 817B, 827B, and 837B flanges (see page 5). Accepts 2A inserts (see ED683).	829S 	Brass Communication Cover Plate – Data slides. Feed through only, not for use with a mounting plate for communication jacks.

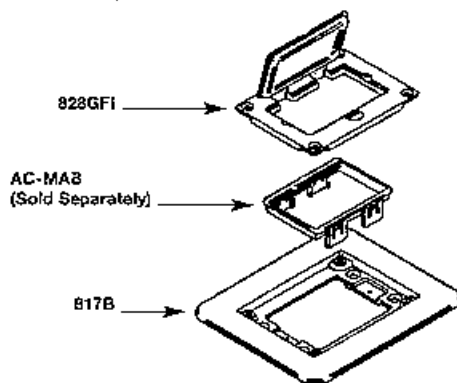
Walker Floor Box Cover Plates

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
829CK 	Brass Communication Cover Plate - 2 5/8" [67mm] and 2 1/4" [57mm] plugs.	828PTR-BLK 828PTR-BRN 	Nonmetallic Duplex Cover Plate - Plug thru membrane. Available in black or brown.
829CK-1 	Brass Communication Cover Plate - 2 5/8" [67mm] and 1" [25mm] plugs.	829PFL-BLK 829PFL-BRN 	Nonmetallic Communication Cover Plate - Individual flip lids.* Available in black or brown. Gasket included. Can be used in conjunction with the Interlink Activate Connectivity System. (inserts sold separately). Activate 6A mini adapter bezel included. For use with 2A inserts only.
829CK-3/4 	Brass Communication Cover Plate - 2 5/8" [67mm] and 3/4" [19.1mm] plugs.	829PCK-BLK 829PCK-BRN 	Nonmetallic Communication Cover Plate - Breakouts. Available in black or brown. Feed through only, not for use with a mounting plate for communication jacks.
829CK-1/2 	Brass Communication Cover Plate - 2 5/8" [67mm] and 1/2" [12.7mm] plugs.	829PS-BLK 829PS-BRN 	Nonmetallic Communication Cover Plate - Data slides. Available in black or brown. Feed through only, not for use with a mounting plate for communication jacks.
828PR-BLK 828PR-BRN 	Nonmetallic Duplex Cover Plate - Flip lids. Available in black or brown. Can also be used with a 106 type communication bezel, Interlink Activate AC-DP106.		

*Replacement flip lids can be ordered under Cat. No. PFL-BLK and PFL-BRN. Each Cat. No. comes with three flip lids.

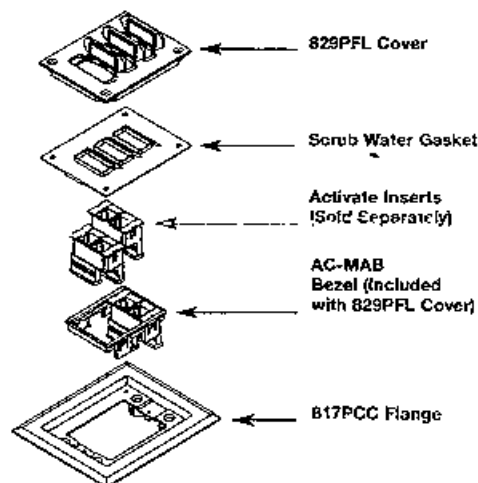
Mounting Options for Interlink Activate Connectivity Inserts

Brass Cover Plate Mounting Option



Activate inserts sold separately. Mounting method typical for two- and three-gang versions. All parts sold separately.

Nonmetallic Cover Plate Mounting Option



Activate inserts sold separately. Mounting method typical for two- and three-gang versions. Part is scrub water approved for use on tile floors. To maintain scrub water resistance, blank Activate inserts must be inserted in unused openings.

NOTE: The 828GFI Cover and the 829PFL Cover must remain open on some Activate inserts.

Interlink Activate™ Connectivity System for Omnibox Floor Boxes

- Wide variety of inserts for voice, data, audio, and video.
- Category 5e inserts and keystone jacks exceed the ANSI/TIA/EIA 568-A-5 Category 5e component performance requirements and utilize universal wiring for both T568A/B.
- Combine up to three 2A inserts within the 6A single-gang opening for true multimedia capabilities.
- Inserts feature a front loading snap-in design for ease of installation, additions, and configuration changes.
- Port labeling can be provided through use of optional icon buttons, labels, and label templates which can be downloaded from www.wiremold.com.
- Activate inserts snap into the 817B, 827B, 837B, 817PCC, 827PCC, and 837PCC Flanges with the use of the 6A mini adapter bezel (AC-MAB) (not included with flanges).
- The brass cover options include the 828GFI. The 828GFI option accommodates 2A inserts. The nonmetallic cover options include the 829PFL. The 829PFL also accommodates 2A inserts.



Common Workstation Inserts

Insert With:	2A Size	
	Single Port	Dual Port
1 or 2 RJ45, T568A/B, Category 5e Jacks	2A145-C5E	2A245-C5E
1 or 2 RJ12, 6W, USOC Category 3 Jacks	2A112-U	2A212-U
1 Duplex SC Connector	—	2A-2SC
Dual ST Multi-Mode Connector*	—	2A-2ST-MM
1 or 2 RCA Audio Connectors*	2A-1RCA	2A-2RCA
1 or 2 BNC Connectors*	2A-1BNC	2A-2BNC
1 or 2 Video "F" Connectors*	2A-1F	2A-2F
1 BNC and 1 Video "F" Connector*	—	2A-BNC-F
Keystone/Open System Insert (Unloaded)	2A-U1KEY**	2A-U2KEY**
Blank Insert	2A-BL	—
3-Way Binding Post Audio Connector*	—	2A-2RBBP
1 Super VHS Connector	2A-1SVHS	—

NOTE: Standard color for Activate inserts is Ivory, for other colors add one of the following: -WH White, -BK Black, -GY Gray (matches aluminum and nonmetallic raceways) -G Gray (matches gray steel raceways).

*Cover plate lid must remain open to function properly.

**See chart for discrete keystone jacks.

Discrete Keystone Jacks



Wiring Type

Category 5e,
RJ45, T568A/B

Catalog No.

AC-C5EKEY

NOTE: Standard color is Ivory, for other colors add one of the following: -WH White, -BK Black, -G Gray (matches gray steel raceways), -RD Red, -BL Blue, -GR Green, -YL Yellow, -OR Orange.

Labeling Options*

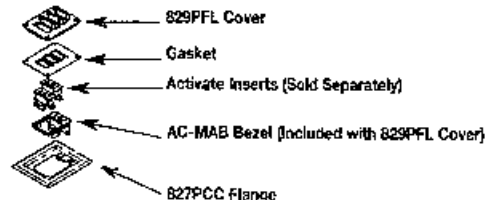
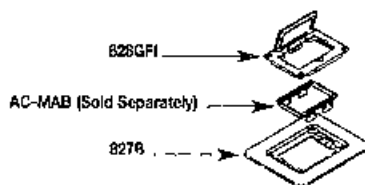
Assorted Icon Labels – 30 Labels (5 Sheets)	IL-30-A-XX
Voice Icon Labels – 30 Labels (5 Sheets)	IL-30-V-XX
Data Icon Labels – 30 Labels (5 Sheets)	IL-30-D-XX
Voice Icon Buttons (100/Package)	DI-02V-XX
Data Icon Buttons (100/Package)	DI-02D-XX

*Replace XX in part number with one of the following to identify color:

-BL Blue, -GR Green, -GY Gray, -OR Orange, -RD Red, -VL Violet, -WH White, -YL Yellow.

Mounting Options for Interlink Activate Connectivity Inserts

The Activate Series inserts can be used with both "B" series brass and nonmetallic flanges. The Activate 6A mini adapter bezel snaps directly into the flange.



NOTE: The 828GFI and 829PFL covers must remain open on some Activate inserts.

For other standard types of inserts and labeling options see ED683 for the full Activate System product offering.

WIREMOLD®
Walker Infloor Systems

The Wiremold Company

In U.S.:

60 Woodlawn Street • West Hartford, CT 06110
1-800-621-0049 • FAX 860-232-2062

In Canada:

850 Galtshore Street • Fergus, Ontario N1M 2W8
1-800-741-7957 • FAX 519-843-5980

International Sales:

1000 Innovation Drive • Williamstown, WV 26187
1-304-375-1093 • FAX 1-304-375-1099

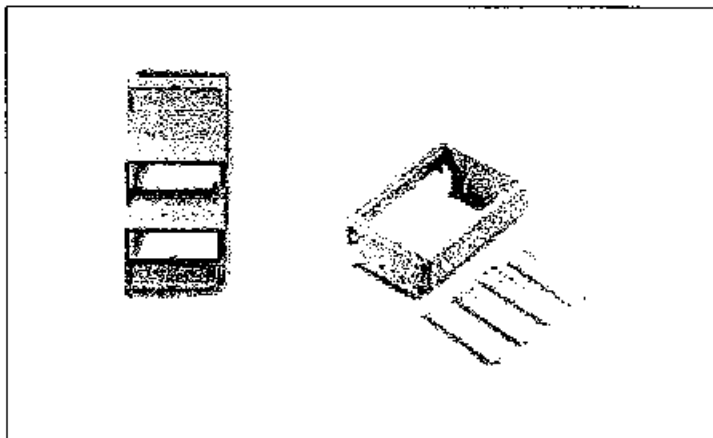


Mounting Bezels and Adapters



Interlink Activate mounting bezels and adapters allow Activate modular inserts to be easily mounted in the wide variety of Wiremold wire and cable management platforms, as well as modular furniture systems. All mounting bezels and adapters feature a convenient front load snap-in design that reduces installation time and provides an aesthetically pleasing and functional interface. Most bezels and adapters include two labeling areas for station identification purposes that also double as an attractive screw hiding mechanism. The 6A opening in most bezels and adapters allow multiple Activate modular inserts to be combined to provide true multimedia capabilities at the point of use.

These mounting devices are all part of the Activate family of workstation connectivity that has been designed to integrate seamlessly and aesthetically into a wide variety of office applications. Whether a traditional in-wall installation, or any one of a number of wire and cable management applications, the Activate Connectivity System has the outlet solution for even the toughest installation environment.

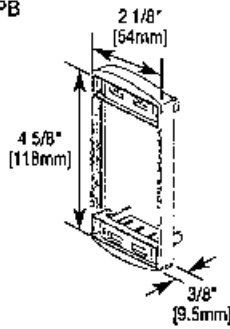
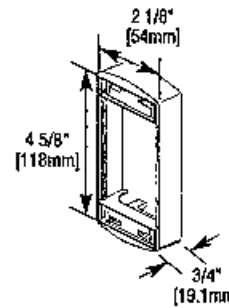


Shown: Angled Raceway Adapter (left) and Herman Miller Modular Furniture Bezel (right).

Features & Benefits

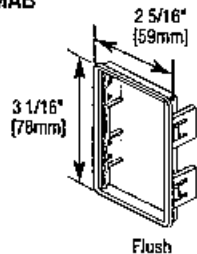
- **Mounting.** Mounting bezels and adapters allow Activate inserts to be mounted in the wide range of Wiremold wire and cable management platforms and modular furniture systems.
- **Labeling.** Ease of cable and outlet administration is provided through a unique labeling capability. Station identification labels and windows are included, as well as color-matched screw covers. Templates can be downloaded from www.wiremold.com, allowing users to create high quality custom labels.
- **Installation and configuration ease.** All mounting bezels and adapters feature a front load snap-in design which allow additions or outlet configuration changes to be made quickly.
- **Color Options.** Mounting bezels and adapters are available in a choice of colors, each perfectly color matched to the wide variety of Wiremold wire and cable management platforms.

High and Low Profile Bezels

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
AC-LPB	 <p>Low Profile Bezel – Two outlet identification labels with clear covers and two matching screw covers. No icon buttons or labels. 6A opening for mounting Activate modular inserts into Isoduct™ Aluminum Raceways, Walker® Resources RFB4 Floor Boxes, and Telc-Power® Poles.</p>	AC-HPB	 <p>High Profile Bezel – Two outlet identification labels with clear covers and two matching screw covers. No icon buttons or labels. 6A opening for mounting Activate modular inserts into Isoduct Aluminum Raceways and Tele-Power Poles when additional depth is required.</p>

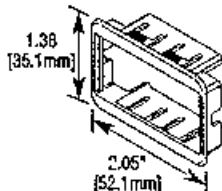
NOTE: Standard color is Ivory, for other colors add one of the following: -GY Gray (matches aluminum and nonmetallic raceways), -BK Black, -G Gray (matches gray steel raceways).

6A Mini Adapter Bezel

Catalog No./Item	Description/Specifications
AC-MAB	 <p>6A Mini Adapter Bezel – No icon buttons or labels. 6A opening for mounting Activate modular inserts into Isoduct Aluminum Raceways, Walker FloorSource™, Resource RFB8 Floor Boxes, Omnibox™ Multiservice Floor Boxes, Walkerduct Pro Series, 500 Series and MultiPlex™ Service Fittings, RCI™ FIT, and RC900-FF3 Series Poke-Thrus.</p>

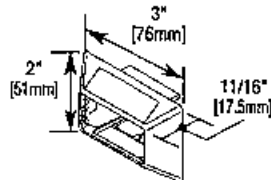
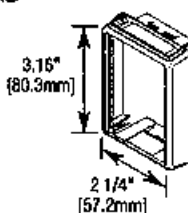
NOTE: Standard color is Ivory, for other colors add one of the following: -GY Gray (matches aluminum and nonmetallic raceways), -BK Black, -G Gray (matches gray steel raceways).

2A Mini Adapter Bezel

Catalog No./Item	Description/Specifications
AC-2AB	 <p>2A Mini Adapter Bezel – No icon buttons or labels. 2A opening for mounting one 2A insert into Isoduct Aluminum Raceways, Wiremold 4000 Series overlapping device brackets, and Walker Resource RFB Floor Boxes.</p>


NOTE: Standard color is Ivory, for other colors add one of the following: -GY Gray (matches aluminum and nonmetallic raceways), -BK Black, -G Gray (matches gray steel raceways).

Modular Furniture Bezels

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
AC-MFB	 <p>Modular Furniture Bezel – Two outlet identification labels with clear covers and two matching screw covers. No icon buttons or labels. 2A opening for mounting one 2A Activate modular insert into a standard modular furniture hole cut.</p>	AC-HAB	 <p>Herman Miller Bezel – Two outlet identification labels with clear covers and two matching screw covers. No icon buttons or labels. 6A opening for mounting Activate modular inserts into Action Office II and Ethospace® Baseline Furniture Systems.</p>

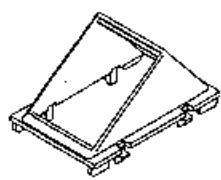
NOTE: Standard color is Ivory, for other colors add one of the following: -GY Gray (matches aluminum and nonmetallic raceways), -BK Black, -G Gray (matches gray steel raceways).

Angled Raceway Adapter

Catalog No./Item	Description/Specifications
AC-ARA	 <p>Angled Raceway Adapter – Two outlet identification labels with clear covers and two matching screw covers. No icon buttons or labels. Provides angled exit in multichannel raceway systems and WallSource™ boxes. Snaps into standard device brackets. Accepts two 2A Activate modular inserts.</p>

NOTE: Standard color is Ivory, for other colors add one of the following: -WH White, -G Gray (matches gray steel raceways).

3A Angled Mounting Adapter

Catalog No./Item	Description/Specifications
AC-AMA	 <p>Angled Mounting Adapter – Provides angled with a 3A size opening. Use where additional depth is required. Snaps into Activate faceplates, bezels and device brackets with 6A openings. Accepts one 2A Activate modular insert with a 1A blank or a 3A size insert.</p>

NOTE: Standard color is Ivory, for other colors add one of the following: -WH White, -GY Gray (matches aluminum and nonmetallic raceways), -BK Black, -G Gray (matches gray steel raceways).

Notes

WM WIREMOLD®
Interlink Cabling System

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The Wiremold Company

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ED1019 900

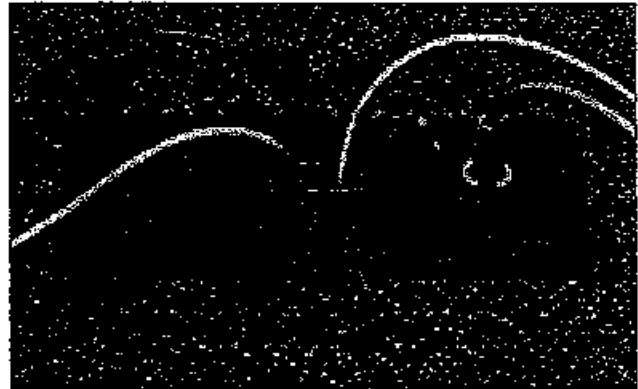


Wood Floor Box Series, An Excellent Open Space Solution

CATEGORY **5e**



The Walker Wood Floor Box Series provides an excellent solution for unique wood floor applications when power and communication services are required in remote locations, as in a wide, open space area. This wood floor box series is available in a rectangular design and can be used in any wood frame construction. The floor box series offers one-, two-, or three-gang configurations that allow for greater flexibility when more capacity is required. These floor boxes support Interlink Activate™ Connectivity System inserts for UTP, Fiber Optics, Coax, Audio and Video, providing a flexible and cost effective solution for today's cabling requirements. Boxes are cULus Listed for wood floor applications. The Walker Wood Floor Box Series has many different applications. Some of those applications are upscale housing, home offices, board rooms, gymnasiums and residential needs. With their labor saving and aesthetic appearance, these boxes will please any architect or building owner who needs single or multiservice wiring solutions.

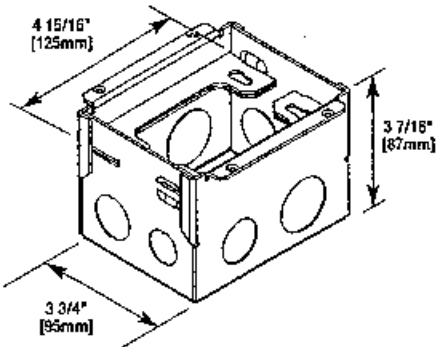
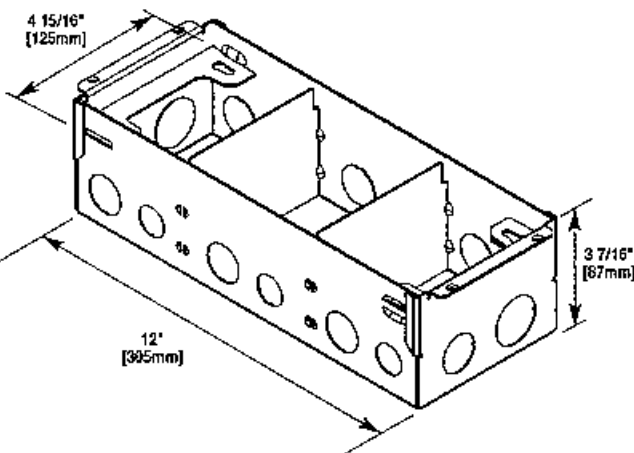
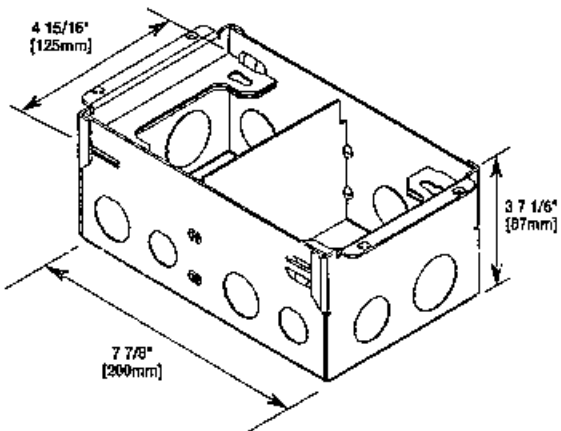


Rectangular Wood Floor Box shown with nonmetallic cover for multiservice application.


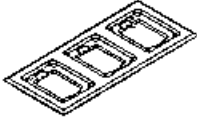



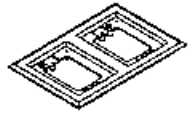

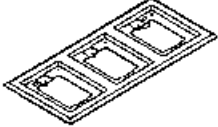

Features & Benefits

- **Available in one-, two-, and three-gang configurations.** Multiservice separation and even greater capacity when divider is removed. Eliminates cost of using multiple floor boxes for high capacity requirements.
- **Flush activation assembly.** Same activation assemblies as Walker concrete floor boxes. Wide range of aesthetically pleasing brass and nonmetallic activations that do not obstruct the floor area or create a safety hazard.
- **Interlink Activate UTP, coaxial, audio and fiber optic inserts.** A wide variety of media inserts to ensure a reliable, cost effective activation for today's demanding communication system designs.
- **Activation covers for communication applications.** Provides communication termination and protection at the workstation location. Offers flexibility of modular communication connectors.

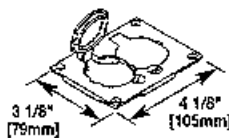
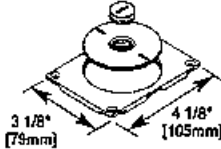
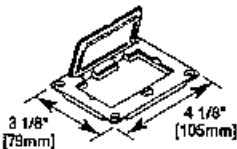
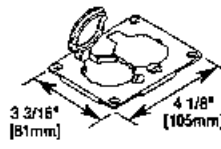
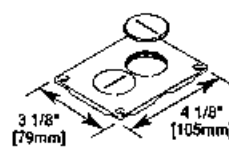
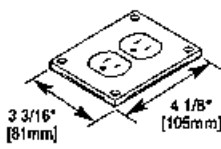
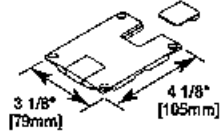
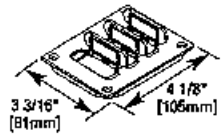
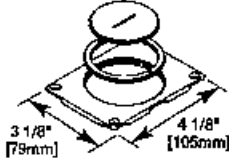
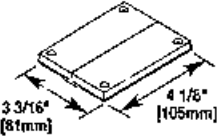
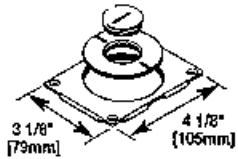
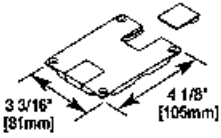
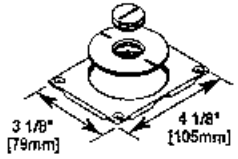
Multiservice Steel Floor Box Ordering Information

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
880W1	<p>One-Gang Steel Floor Box for Wood Floors – Knockouts for three 1/2" [12.7mm], five 3/4" [19.1mm], and two 1" [25mm] conduits. 53 cubic inches [869ml] of capacity.</p> 	880W3	<p>Three-Gang Steel Floor Box for Wood Floors – Knockouts for nine 1/2" [12.7mm], eleven 3/4" [19.1mm], and two 1" [25mm] conduits. 56 cubic inches [918ml] of capacity in each of the outside compartments. 68 cubic inches [1115ml] of capacity in center compartment. Barrier is removable for greater capacity if needed.</p> 
880W2	<p>Two-Gang Steel Floor Box for Wood Floors – Knockouts for six 1/2" [12.7mm], eight 3/4" [19.1mm], and two 1" [25mm] conduits. 58 cubic inches [951ml] of capacity in one compartment. 59 cubic inches [967ml] of capacity in second compartment. Barrier is removable for greater capacity if needed.</p> 		

Cover Plate Flanges

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
817B	 <p>One-Gang Brass Combination Carpet and Tile Flange – 5 1/16" [129mm] L x 6 1/16" [154mm] W. Accepts the Interlink Activate 6A mini adapter bezel (AC-MAB).</p>	837C	 <p>Three-Gang Brass Carpet Flange – 13" [330mm] L x 5 3/4" [146mm] W. for use on 880W3 Floor Box.</p>
827B	 <p>Two-Gang Brass Combination Carpet and Tile Flange – 9 3/16" [238mm] L x 6 1/16" [154mm] W. Accepts the Interlink Activate 6A mini adapter bezel (AC-MAB).</p>	817PCC-BLK 817PCC-BRN	 <p>One-Gang Nonmetallic Carpet Flange – Available in black or brown. 4 3/4" [121mm] L x 5 3/4" [146mm] W. Accepts the Interlink Activate 6A mini adapter bezel (AC-MAB).</p>
837B	 <p>Three-Gang Brass Combination Carpet and Tile Flange – 13 5/16" [338mm] L x 6 1/16" [154mm] W. Accepts the Interlink Activate 6A mini adapter bezel (AC-MAB).</p>	827PCC-BLK 827PCC-BRN	 <p>Two-Gang Nonmetallic Carpet Flange – Available in black or brown. 8 7/8" [225mm] L x 5 3/4" [146mm] W. Accepts the Interlink Activate 6A mini adapter bezel (AC-MAB).</p>
817C	 <p>One-Gang Brass Carpet Flange – 4 3/4" [121mm] L x 5 3/4" [146mm] W. For use on 880W1 Floor Box.</p>	837PCC-BLK 837PCC-BRN	 <p>Three-Gang Nonmetallic Flange – Available in black or brown. 13" [330mm] L x 5 3/4" [146mm] W. Accepts the Interlink Activate 6A mini adapter bezel (AC-MAB).</p>
827C	 <p>Two-Gang Brass Carpet Flange – 8 7/8" [225mm] L x 5 3/4" [146mm] W. For use on 880W2 Floor Box.</p>		

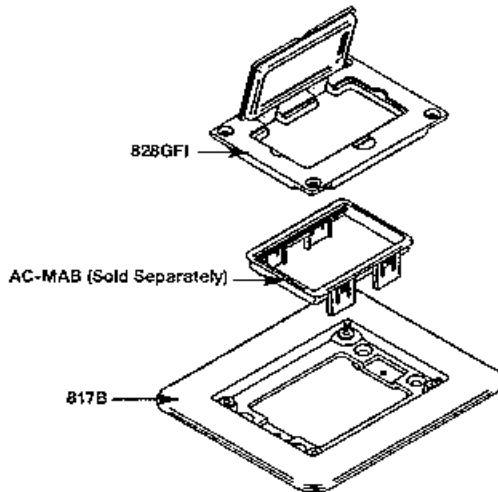
Walker Floor Box Cover Plates

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
828R	Brass Duplex Cover Plate – Flip lids. Can also be used with a 106 type communication bezel, Interlink Activate AC-DP106. 	829CK-1/2	Brass Communication Cover Plate – 2 5/8" [67mm] and 1/2" [12.7mm] plugs. 
828GFI	Brass GFI Cover Plate – May be used with Interlink Activate Connectivity System in conjunction with 817B, 827B and 837B Flanges (see page 5). Accepts 2A inserts (see ED683). 	828PR-BLK 828PR-BRN	Nonmetallic Duplex Cover Plate – Flip lids. Available in black or brown. Can also be used with a 106 type communication bezel, Interlink Activate AC-DP106. 
828P	Brass Duplex Cover Plate – Screw plugs. Screw plugs are 1 1/2" [38mm] in diameter. 	828PTR-BLK 828PTR-BRN	Nonmetallic Duplex Cover Plate – Plug-thru membrane. Available in black or brown. 
829S	Brass Communication Cover Plate – Data slides. Feed through only, not for use with a mounting plate for communication jacks. 	829PFL-BLK 829PFL-BRN	Nonmetallic Communication Cover Plate – Individual flip lids.* Available in black or brown. Gasket included. Can be used in conjunction with the Interlink Activate Connectivity System (inserts sold separately). Activate 6A mini adapter bezel (AC-MAB) included. For use with 2A inserts. 
829CK	Brass Communication Cover Plate – 2 5/8" [67mm] and 2 1/4" [57mm] plugs. 	829PCK-BLK 829PCK-BRN	Nonmetallic Communication Cover Plate – Breakouts. Available in black or brown. Feed through only, not for use with a mounting plate for communication jacks. 
829CK-1	Brass Communication Cover Plate – 2 5/8" [67mm] and 1" [25mm] plugs. 	829PS-BLK 829PS-BRN	Nonmetallic Communication Cover Plate – Data slides. Available in black or brown. Feed through only, not for use with a mounting plate for communication jacks. 
829CK-3/4	Brass Communication Cover Plate – 2 5/8" [67mm] and 3/4" [19.1mm] plugs. 		

*Replacement flip lids can be ordered under Cat. No. PFL-BLK and PFL-BRN. Each Cat. No. comes with three flip lids.

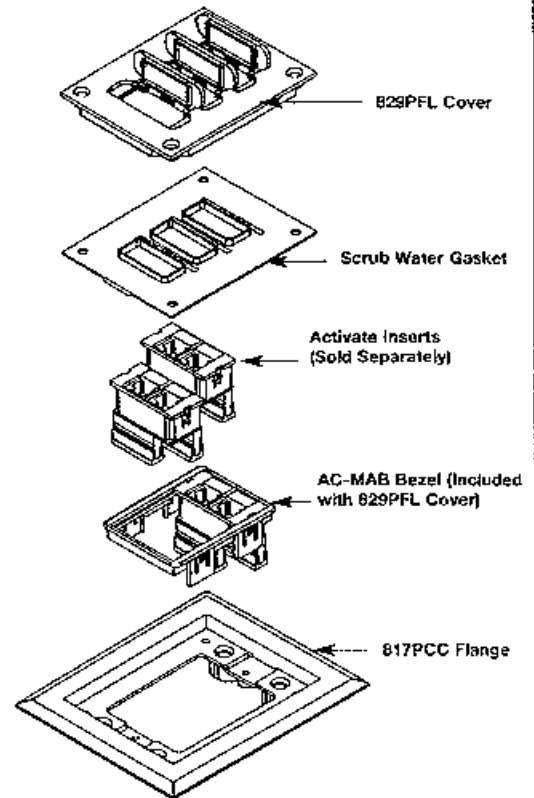
Mounting Options for Interlink Activate Connectivity Inserts

Brass Cover Plate Mounting Option



Activate inserts sold separately. Mounting method typical for two- and three-gang versions. All parts sold separately.

Nonmetallic Cover Plate Mounting Option



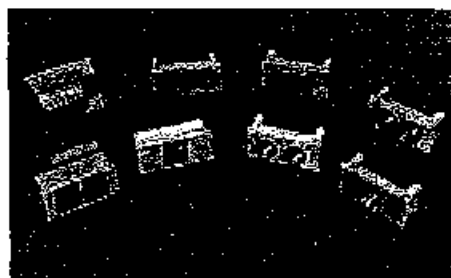
Activate inserts sold separately. Mounting method typical for two- and three-gang versions. Part is scrub water approved for use on tile floors. To maintain scrub water resistance, blank Activate inserts must be inserted in unused openings.

NOTE: The 828GFI Cover must remain open on some Activate inserts.

NOTE: 829PFL Cover must remain open on some Activate inserts.

Interlink Activate™ Connectivity System for Source III Activations

- Wide variety of inserts for voice, data, audio, and video.
- Category 5e inserts and keystone jacks exceed the ANSI/TIA/EIA 568-A-5 Category 5e component performance requirements and utilize universal wiring for both T568A/B.
- Combine up to three 2A inserts within the 6A single-gang opening for true multimedia capabilities.
- Inserts feature a front loading snap-in design for ease of installation, addition, and configuration changes.
- Port labeling can be provided through use of optional icon buttons, labels, and label templates which can be downloaded from www.wiremold.com.
- Activate inserts snap into the 817B, 827B, 837B, 817PCC, 827PCC, and 837PCC Flanges with the use of the 6A mini adapter bezel (AC-MAB) (not included with flanges).
- The brass cover options include the 828GFI. The nonmetallic cover options include the 829PFL. Both options accommodate Activate 2A inserts.




Common Workstation Inserts

Insert With:	2A Size	
	Single Port	Dual Port
1 or 2 RJ45, T568A/B, Category 5e Jacks	2A145-C5E	2A245-C5E
1 or 2 RJ12, 6W, USOC Category 3 Jacks	2A112-U	2A212-U
1 Duplex SC Connector	—	2A-2SC
Dual ST Multi-Mode Connector	—	2A-2ST-MM
1 or 2 RCA Audio Connectors	2A-1RCA	2A-2RCA
1 or 2 BNC Connectors	2A-1BNC	2A-2BNC
1 or 2 Video "F" Connectors	2A-1F	2A-2F
1 BNC and 1 Video "F" Connector	—	2A-BNC-F
Keystone/Open System Insert (Unloaded)	2A-U1KEY*	2A-U2KEY*
Blank Insert	2A-BL	—
3-Way Binding Post Audio Connector	—	2A-2RBBP
1 Super VHS Connector	2A-1SVHS	—

NOTE: Standard color for Activate inserts is Ivory, for other colors add one of the following: -WH White, -BK Black, -GY Gray (matches aluminum and nonmetallic raceways) -G Gray (matches gray steel raceways).

*See chart for discrete keystone jacks.

Discrete Keystone Jacks

	Wiring Type	Catalog No.
	Category 5e, RJ45, T568A/B	AC-C5EKEY

NOTE: Standard color is Ivory, for other colors add one of the following: -WH White, -BK Black, -G Gray (matches gray steel raceways), -RD Red, -BL Blue, -GR Green, -YL Yellow, -OR Orange.

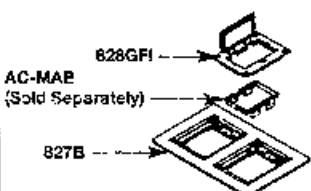
Labeling Options*

Assorted Icon Labels - 30 Labels (5 Sheets)	IL-30-A-XX
Voice Icon Labels - 30 Labels (5 Sheets)	IL-30-V-XX
Data Icon Labels - 30 Labels (5 Sheets)	IL-30-D-XX
Voice Icon Buttons (100/Package)	DI-02V-XX
Data Icon Buttons (100/Package)	DI-02D-XX

*Replace XX in part number with one of the following to identify color: -BL Blue, -GR Green, -GY Gray, -OR Orange, -RD Red, -VL Violet, -WH White, -YL Yellow.

Mounting Options for Interlink Activate Connectivity Inserts

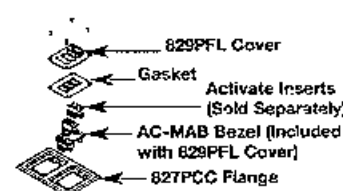
The Activate Series inserts can be used with both "B" Series brass and nonmetallic flanges. The Activate 6A mini adapter bezel snaps directly into the flange.



828GFI —

AC-MAB (Sold Separately) —

827B —



829PFL Cover —

Gasket —

Activate Inserts (Sold Separately) —

AC-MAB Bezel (Included with 829PFL Cover) —

827PCC Flange —

NOTE: The 828GFI and 829PFL Covers must remain open on some Activate inserts.

For other standard types of inserts and labeling options see ED683 for the full Activate System product offering.

WIREMOLD®
Walker® Infloor Systems

The Wiremold Company
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International Sales:
1000 Innovation Drive • Williamsstown, WV 26187
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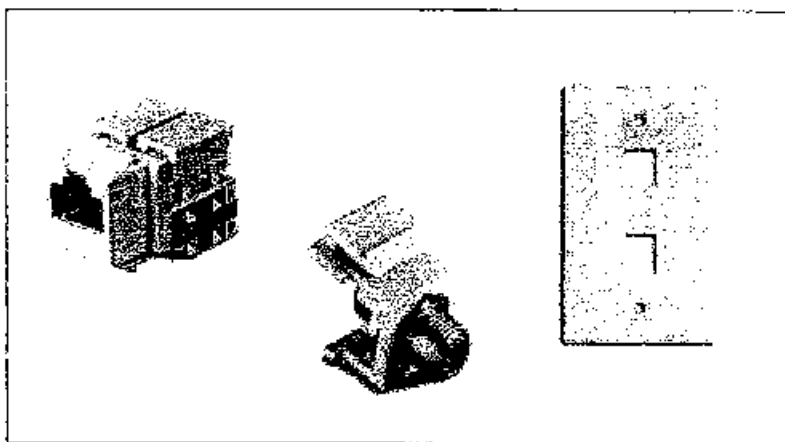
Keystone Jacks, Faceplates and 106 Frames



The Interlink Activate Connectivity System keystone jacks, adapters and mounting products are designed to integrate seamlessly into a wide range of applications, including Wiremold wire and cable management systems.

Category 5e keystone jacks feature universal wiring allowing them to be terminated for either T568A or T568B wiring. These jacks exceed the component requirements as specified by ANSI/TIA/EIA-568-A-5 for connecting hardware to 100MHz and are part of the Wiremold Interlink Cabling System Category 5e Component Solution. This allows Category 5e keystone jacks to support new emerging applications such as 1000Base-T Gigabit Ethernet. Best of all the interoperability and backward compatibility guarantee that your cabling system meets current and future application needs.

Category 3 6-position jacks with USOC wiring, video adapters with F-81 connectors, unloaded BNC coaxial adapters and blanks are also available. All keystone jacks and adapters easily mount into keystone faceplates as well as dual and quad 106 frames. Activate Category 5e and Category 3 jacks can also be mounted into Activate single and dual unloaded discrete jack/open system inserts for use in the wide variety of Activate faceplates and specialty mounting bezels.



Shown: Category 5e Jack, F-81 Video Adapter and 2-Port Faceplate

Features & Benefits

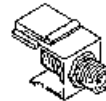
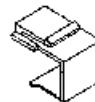
- **Category 5e component performance.** Category 5e keystone jacks exceed the component requirements as specified by ANSI/TIA/EIA-568-A-5 and can support 1000Base-T Gigabit Ethernet.
- **Universal wiring.** Category 5e keystone jacks can be terminated for either T568A or T568B wiring configurations.
- **Conductivity.** Keystone jack contact area is plated with 50 micro-inches of gold.
- **Activate discrete jack inserts.** Category 5e and Category 3 keystone jacks can be mounted in the wide variety of Activate faceplates and specialty mounting bezels using single and dual Activate unloaded keystone inserts.
- **Color options.** Activate keystone jacks and faceplates are color matched in ivory, black, gray, and white. Category 5e jacks are also available in blue, red, green, yellow, and orange.

Keystone Jacks and Adapters Ordering Information

Catalog No./Item	Description
AC-C5KEY	Category 5e Universal Keystone Jack – 8-position, 8-Wire RJ45 dual color coded for T568A and T568B
AC-C3KEYU	Category 3 Keystone Jack – RJ11 6-Wire USOC.
C-20950	Unloaded BNC Keystone Adapter.



Catalog No./Item	Description
C-20951	Keystone Blank Adapter.
C-20952	Keystone F81 Video Adapter.

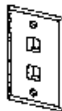


NOTE: Standard color is Ivory, for other colors add one of the following: -WH White, -BK Black, -G Gray (matches gray steel raceways). Category 5e Jacks are also available in the following colors: -BL Blue, -RD Red, -GR Green, -YL Yellow, -OR Orange.

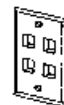
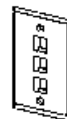
Keystone Faceplates Ordering Information

- Available in one-, two-, three-, and four-port configurations.
- Provides the flush mounting of Activate keystone jacks and adapters as well as most industry standard keystone jacks and adapters with a latching area of 0.57" [14.5mm] x 0.76" [19.3mm].
- Fits standard NEMA single-gang openings or boxes.

Catalog No./Item	Description
C-20911	1-Port Keystone Faceplate.
C-20922	2-Port Keystone Faceplate.



Catalog No./Item	Description
C-20933	3-Port Keystone Faceplate.
C-20944	4-Port Keystone Faceplate.



NOTE: Standard color is Ivory, for other colors add one of the following: -WH White, -BK Black, -G Gray (matches gray steel raceways).

Keystone 106 Frames Ordering Information

- Available in two- and four-port configurations.
- Provides the flush mounting of two Activate keystone jacks as well as most industry standard keystone jacks with a latching area of 0.57" [14.5mm] x 0.76" [19.3mm] into a NEMA standard electrical duplex receptacle opening.

Catalog No./Item	Description
AC-DP106	Duplex 106 Frame.



Catalog No./Item	Description
AC-QP106	Quad 106 Frame.



NOTE: Standard color is Ivory, for other colors add one of the following: -WH White, -BK Black, -G Gray (matches gray steel raceways).

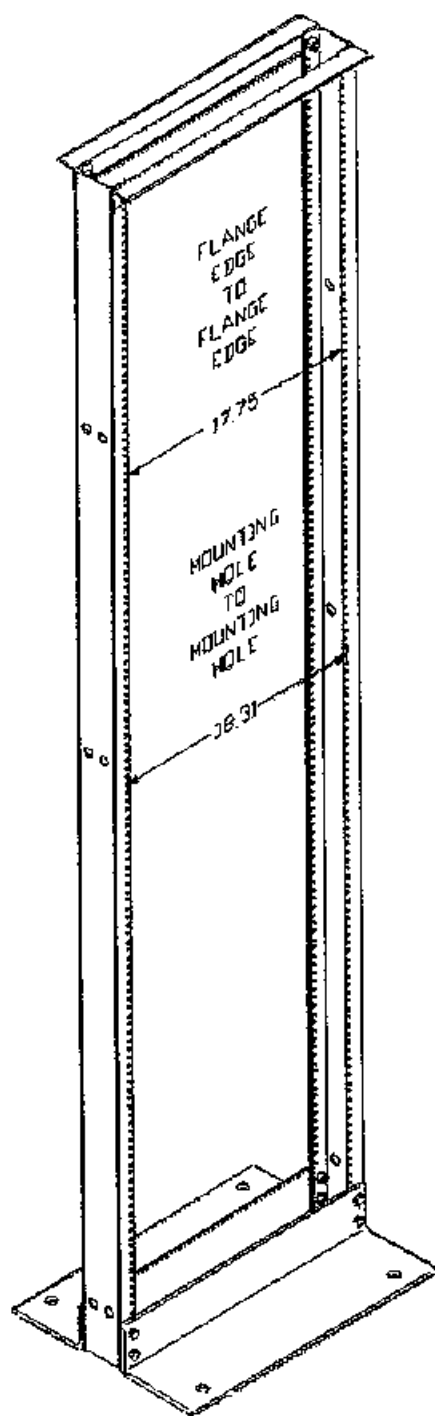
WIREMOLD®
Interlink Cabling System

1000 Sussex Blvd. • Broomall, PA 19008
1-800-451-3683 • FAX 610-543-3055

The Wiremold Company
In U.S.:
60 Woodlawn Street • West Hartford, CT 06110
1-800-521-0049 • FAX 860-232-2052
In Canada:
850 Gairshore Street • Fergus, Ontario N1M 2W8
1-800-741-7957 • FAX 519-843-5980

International Sales:
1000 Innovation Drive • Williamstown, WV 26187
(304) 375-1093 • FAX 304-375-1099





7' x 19" Standard Self-Support Rack

This rack is designed for value conscious, high volume customers, while still offering the quality and service that sets CPI racks apart from the competition. For those customers who require a greater breadth of features, we recommend CPI Universal racks described on the preceding pages.

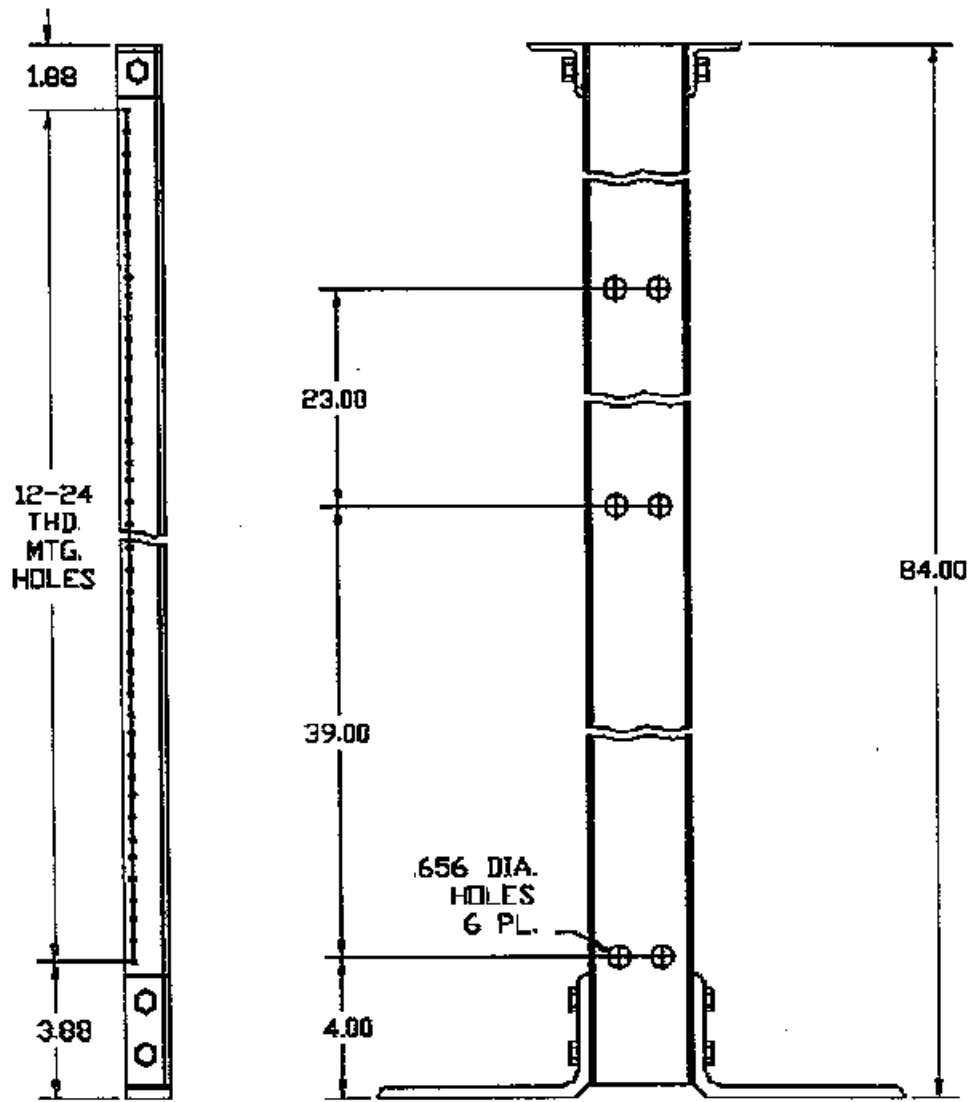
For decades, CPI racks have set standards for the industry. Priced competitively, the CPI 7' x 19" Standard Equipment Rack represents the best value in racks today.

Features:

- 7' x 19" self-supporting rack. High strength 6061-T6 aluminum construction. Supplied with two top angles for additional strength.
- 5/8"-5/8"-1/2" alternating hole pattern offers greater mounting flexibility and is fully compatible with conventional EIA 1 1/4" - 1/2" alternating hole patterns.
- Six web channel holes per side enable multiple racks to be mounted together side by side.
- High strength roll-formed threaded mounting holes.
- Includes 50 pilot point #12-24 mounting screws with combination Phillips & Straight heads to reduce cross-threading and installation time.
- White, Black, Gray or Clear finish over grained surface provides attractive appearance and protection against aluminum oxidation corrosion.
- Shipping weight is approximately 32 lb. each.
- Ships unassembled. Individually packaged, with assembly and installation instructions included. Bulk packaging (25 racks per pallet) is also available.

Part Number	Color
55053-103	GRAY
55053-203	COMPUTER WHITE
55053-503	CLEAR
55053-703	BLACK

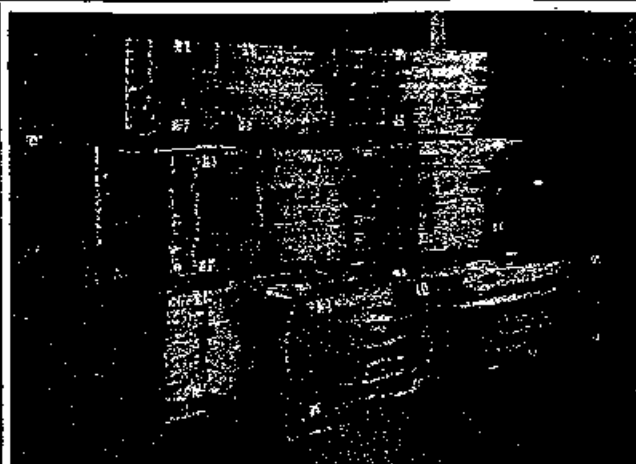
CHANNEL DIMENSIONS



FRONT AND
REAR FLANGES

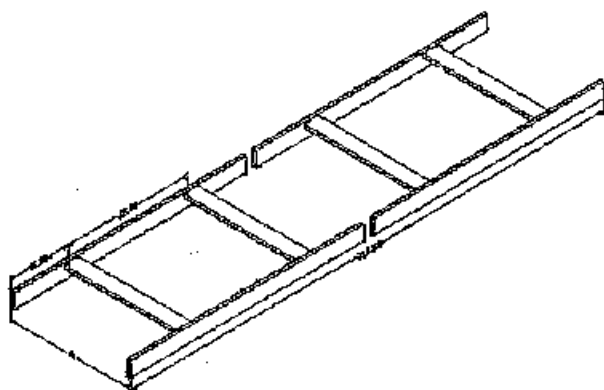
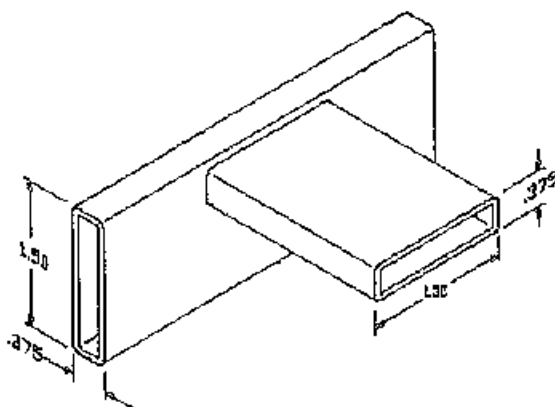
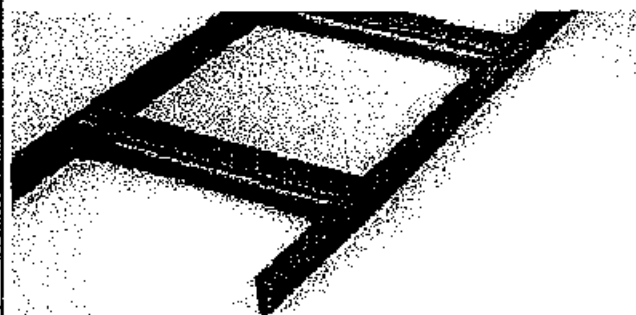
WEB SURFACE
(7' STANDARD RACK)

FRONT HEIGHT	NO. OF MTG. HOLES	NO. OF MTG. STAPLES
7'	135	45



Runway In A Box

Cable runway is now being individually packaged to enhance the quality of shipments to distributors and end users. Individual packaging will be utilized for all 10250 Series Universal Cable Runway, 11252 Series TELCO-Style Cable Runway, and 11275 Series U.L. Classified Cable Runway. Individual pieces of runway are packaged in a custom width box of 200# test cardboard and banded on our strapping machine. Each box is labeled with the part number and product description indicating color and width. Pallets are designed to support the full length and width of multiple quantities of runway. Runway is neatly stacked in two or three columns, fully stretch-wrapped and banded to the pallet to eliminate movement during shipping.



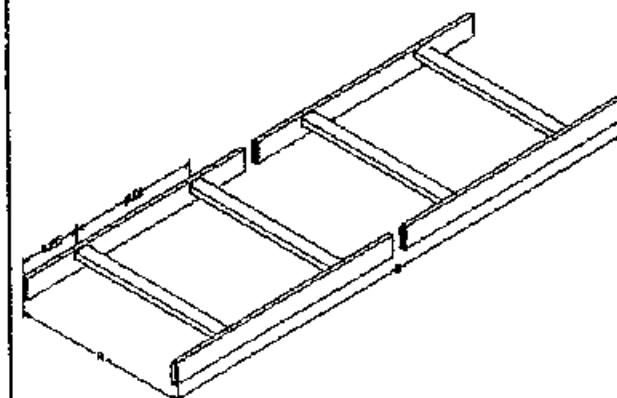
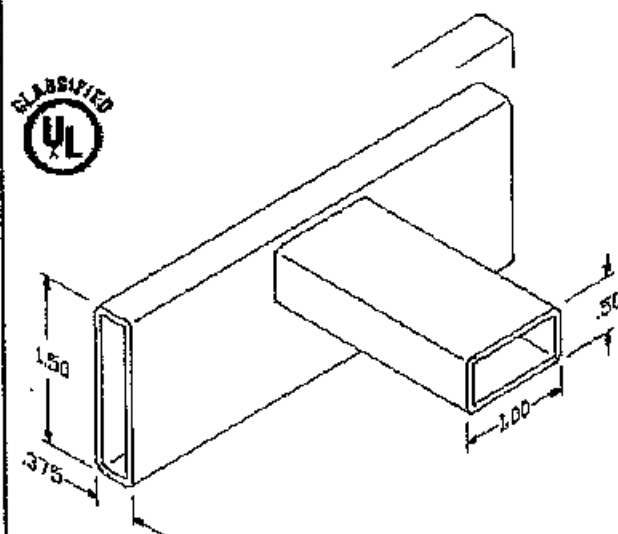
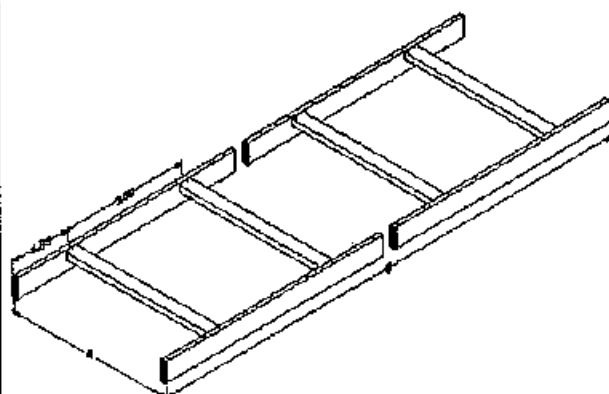
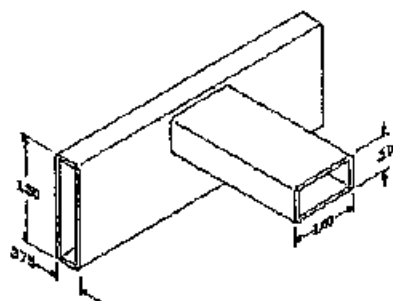
Universal Cable Runway

Pioneered by CPI over 25 years ago, our tubular steel cable runway is still setting standards when it comes to providing quality and value. Tubular construction design weighs half as much as equivalent solid bar types, significantly reducing shipping and handling costs, making installation easier. We strive to offer the widest selection of sizes and colors available. If you don't find what you need in the following pages, please contact us.

Our most popular cable runway is designed for value conscious customers. This basic cable runway offers the industry standard features comparable to many other manufacturers.

- Made of 3/8" x 1-1/2" x .065" wall rectangular steel tubing.
- Cross members welded at 12" intervals.
- Individually boxed to prevent scratches and damage.
- Standard length is 9' 11-1/2".

Part Number Color	Part Number White	Part Number Black	Width (Inch)	Shipping Weight
10250-104	10250-204	10250-704	4"	18 LB
10250-106	10250-206	10250-706	6"	19 LB
10250-109	10250-209	10250-709	9"	20 LB
10250-112	10250-212	10250-712	12"	25 LB
10250-115	10250-215	10250-715	15"	27 LB
10250-118	10250-218	10250-718	18"	29 LB
10250-124	10250-224	10250-724	24"	32 LB



Telco Style Cable Runway

Similar in construction to our Universal Cable Runway (10250 Series). The side stringers are 1 1/2" x 3/8" x .065" and the cross members are 1/2" x 1" x .065" welded at 9" intervals.

- The overall length is 9' 8-1/2" or 4' 5-1/2" to comply with telco standards.
- Individually boxed to prevent scratching and damage.

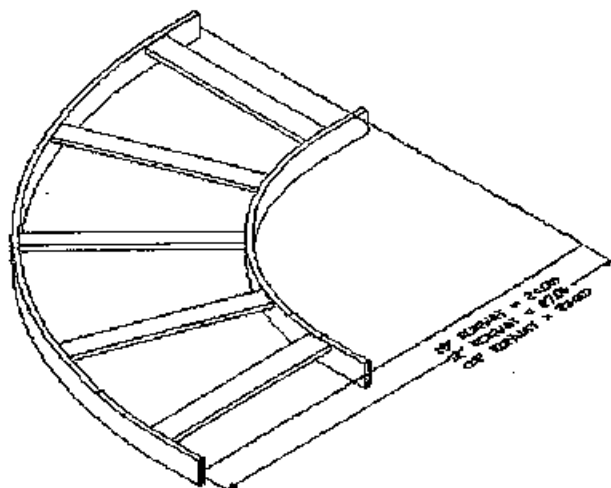
Part Number	Part Number	Part Number	Width (Dim. A)	Length (Dim. B)
11252-106	11252-206	11252-706	6"	9' 8-1/2"
11252-110	11252-210	11252-710	10"	9' 8-1/2"
11252-112	11252-212	11252-712	12"	9' 8-1/2"
11252-113	11252-213	11252-713	12"	4' 5-1/2"
11252-115	11252-215	11252-715	15"	9' 8-1/2"
11252-120	11252-220	11252-720	20"	9' 8-1/2"

U.L. Classified Cable Runway

Similar in construction to our Telco cable runway (11252 series). The side stringers are 1 1/2" x 3/8" x .065" and the cross members are 1/2" x 1" x .065" welded at 9" intervals.

- Finish/Color is Gold chem film over Zinc Plating.
- Underwriters Laboratory Classified for suitability as an equipment grounding conductor only.
- The overall length is 9' 8-1/2" to comply with telco standards.
- Individually boxed to prevent scratching and damage.

Part Number	Width (Dim. A)	Length (Dim. B)	Support Weib.
11275-008	6"	9' 8-1/2"	19 LB
11275-008	9"	9' 8-1/2"	20 LB
11275-012	12"	9' 8-1/2"	22 LB
11275-015	15"	9' 8-1/2"	26 LB
11275-018	18"	9' 8-1/2"	28 LB
11275-020	20"	9' 8-1/2"	29 LB
11275-024	24"	9' 8-1/2"	31 LB



Cable Runway E-Bends

Creates a 90 degree gradual sweep in horizontal plane for cable runway runs. Designed for cabling in conformance with Category 5 minimum bend radius requirements (typically 4 times the cable diameter). Made of lightweight 1-1/2" x 3/8" tubular steel to fit standard cable runway. Cross members welded at approximately 23 degree increments.

Features:

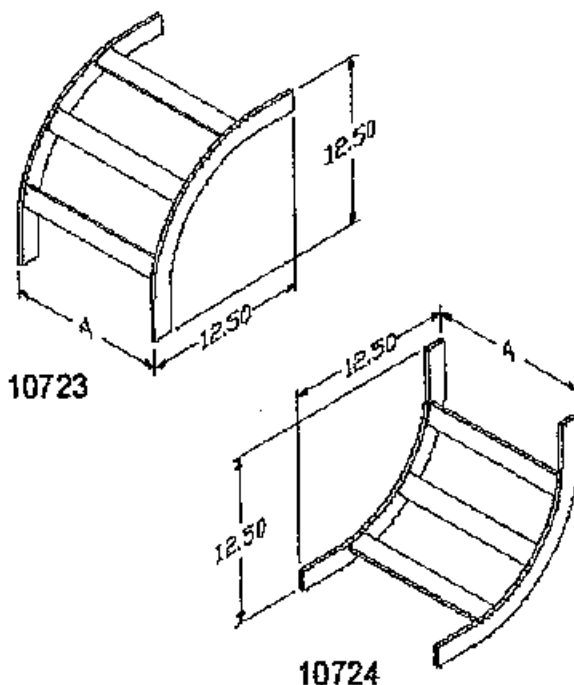
- Conforms to Category 5 requirements.
- Easy installation using CPI Butt Splices (P/N 11301-001, not included).

Part Number 6" Wide	Part Number 12" Wide	Part Number 18" Wide	Finish Color
10822-109	10822-112	10822-118	GRAY
10822-209	10822-212	10822-218	WHITE
10822-709	10822-712	10822-718	BLACK

Cable Runway Radius Bend

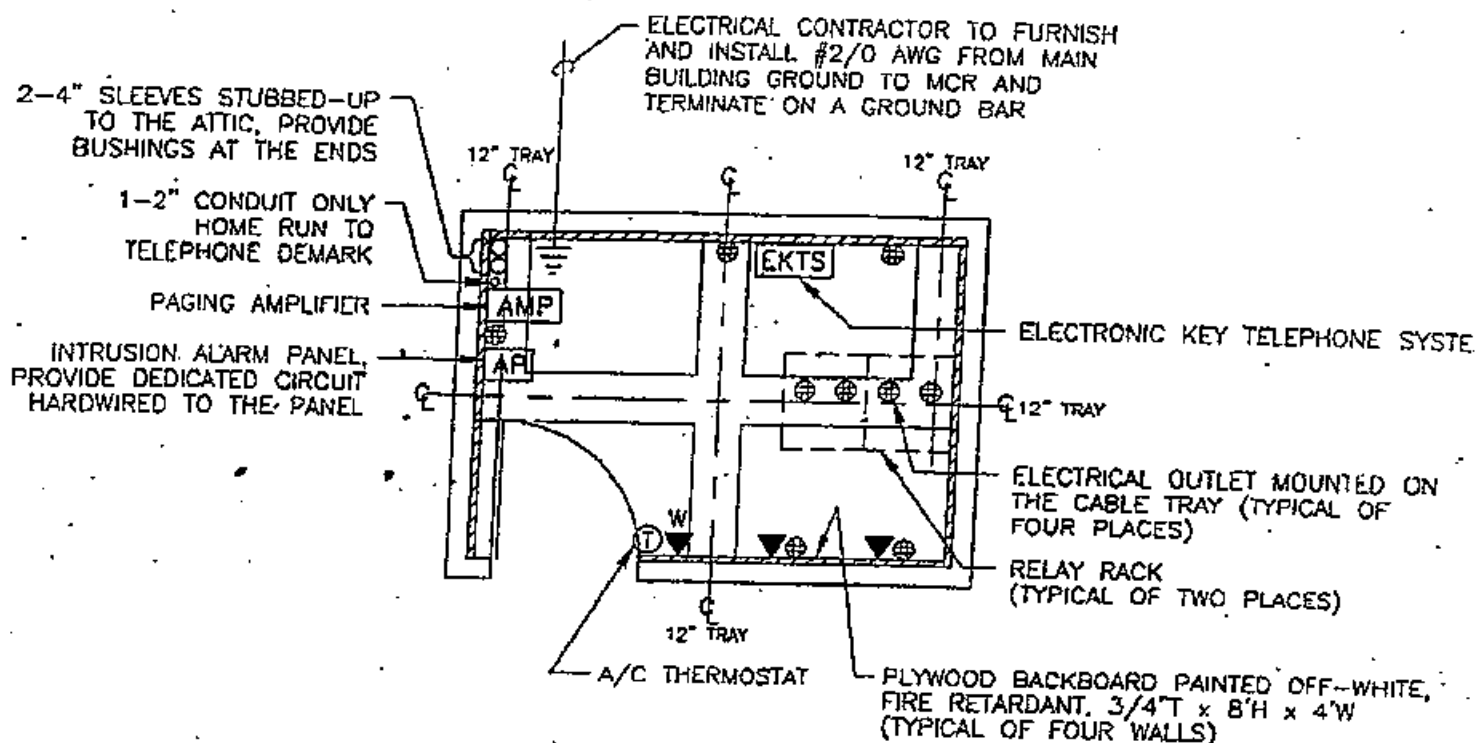
Creates a gradual bend for cascading cable runs.

- Made of lightweight 1-1/2" x 3/8" tubular steel.
- Three cross members welded at approximately 23 degree increments.
- Outside or Inside is determined by welding cross members closer to cable side.



1072 90-Degree Radius Bend	
Outside or Inside Bend	
3	90-DEGREE OUTSIDE BEND
4	90-DEGREE INSIDE BEND
Finish Color	
1	GRAY
2	COMPUTER WHITE
7	BLACK
Width (A)	
06	6 INCHES
09	9 INCHES
12	12 INCHES
15	15 INCHES
18	18 INCHES
1072	X - X XX

Typicals for Section 25.00



NOTES:

- 1 - CABLE TRAYS MOUNTED AT 7'-3", TO BE FURNISHED BY CABLE CONTRACTOR.
- 2 - HEAT DISSIPATION FOR THE COMMUNICATION EQUIPMENT IS 10,000 BTU. AIR CONDITIONING UNIT MUST BE OPERATIONAL 24 HOURS A DAY, 7 DAYS A WEEK.
- 3 - ALL THE ELECTRICAL OUTLETS IN THE COMPUTER ROOM/MCR SHALL BE 125V, 20A, DEDICATED AND ISOLATED, UNLESS OTHERWISE NOTED.

PUBLIC LIBRARY
Computer/Main Communications Room (MCR)

TYPICAL -
 SCALE: 1/4"=1'-0"

DRAWN: F. MONFILS	TITLE	DRAWING NUMBER	REV
ENGINEER: N. CHAN	PUBLIC LIBRARY Computer/Main Communications Room (MCR)	2577	
		SCALE: 1/4"=1'-0"	5-6-99
		PBLIBMCR	SH 1 OF 1

PANDUIT DP485E88110U

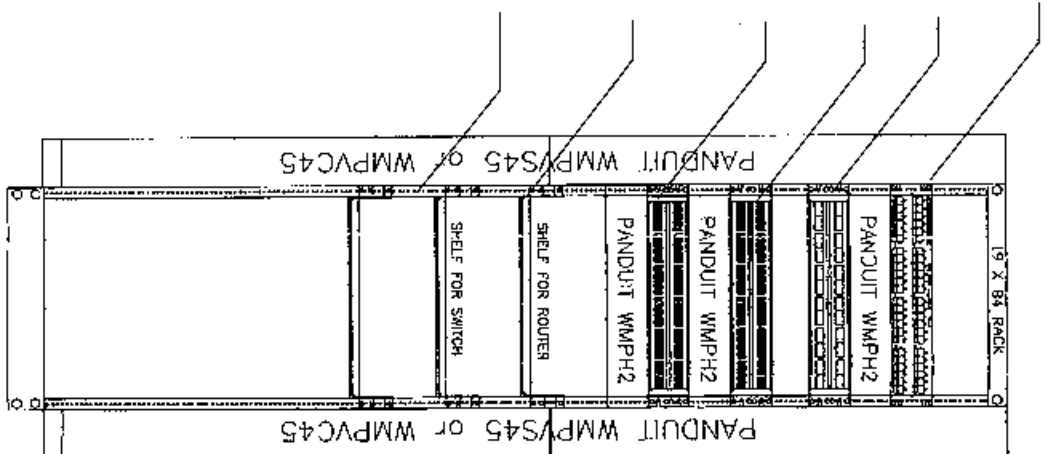
VOICE PATCH PANEL FROM FLOOR
PANDUIT CP483L W/CJ5E88E1 JACKS

PUBLIC DATA PATCH: PANEL
PANDUIT CP48BL W/CJ5E88BL JACKS

STAFF DATA PATCH PANEL
PANDUIT CP48B_ W/CJ5E880R JACKS

SWITCH/ROUTER SHELF
CHATSWORTH 11294--719 COLOR BLACK

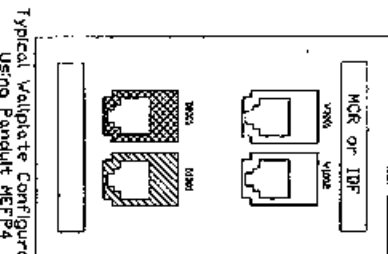
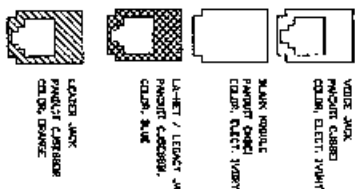
CHATS WORTH P/N 48353-203
TYPICAL ALL RACKS.



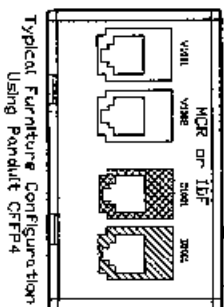
TYPICAL LIBRARY RACK LAYOUT

SCALE: NS

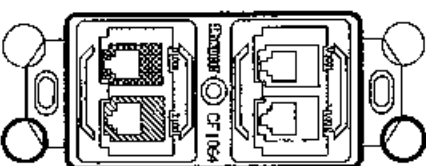
LEGEND



Typical Wallplate Configuration Using Panduit MEP4



Typical Furniture Configuration Using Panduit CFFP4



Typical Floor Mounting
Using Panduit CFI64E

TYPICAL JACK LAYOUT

WITH TWO (2) VOICE CABLES, TWO (2) DATA CABLES PER LOCATION

SCALE: NS

Appendix E:
County of Los Angeles Public Library
Electronic Database Subscription List

COUNTY OF LOS ANGELES ELECTRONIC DATABASE SUBSCRIPTION LIST
Public Access in Community Libraries

Subject	Description	Vendor
Art, Humanities, Literature	Literature Resource Center w/ Scribner Writers & Twayne Authors	Gale
Biography	Biography Resource Center	Gale
Biography	Wilson Biography Index	H.W. Wilson
Genealogy	Heritage Quest	Proquest Info
General Reference	Britannica Student Encyclopedia	Britannica
General Reference	Encyclopedia Britannica School Edition	Britannica
General Reference	Famous First Facts	H.W. Wilson
General Reference	General Reference Center Gold	Gale
General Reference	Opposing Viewpoints	Gale
Government Publications	Government Publications Index (Impact/ACCESS)	Autographics
Health/Medicine	Health & Wellness Center Academic	Gale
Health/Medicine	Health & Wellness Resource Center & Alternate Health	Gale
Health/Medicine	Health Reference	Gale
Kids	Britannica Elementary Encyclopedia	Britannica
Kids	InfoTrac Junior Edition (Middle School)	Gale
Kids	InfoTrac Kid's Edition (K-6)	Gale
Kids	Kids Infobits	Gale
Magazines & Newspapers	Business Periodicals Index	Proquest Info
Magazines & Newspapers	Ethnic Newswatch	Proquest Info
Magazines & Newspapers	Informel! (Spanish Language)	Gale

COUNTY OF LOS ANGELES ELECTRONIC DATABASE SUBSCRIPTION LIST
Public Access in Community Libraries

Subject	Description	Vendor
Magazines & Newspapers	InfoTrac Full Text Newspaper Collection	Gale
Magazines & Newspapers	InfoTrac One File	Gale
Magazines & Newspapers	Magazines/Reference	Gale
Magazines & Newspapers	National Newspaper Index	Gale
Magazines & Newspapers	Newspapers27 Index and Full Text	Proquest Info
Magazines & Newspapers	Periodicals Index	Proquest Info
Reader's Advisory	Good Reads	CoLAPL
Reader's Advisory	Novelist	Ebsco
Sciences	Encyclopedia of Life Sciences	Nature
Sciences	Nature Weekly	Nature

COUNTY OF LOS ANGELES ELECTRONIC DATABASE SUBSCRIPTION LIST
Reference Staff Access in Community Libraries

Subject	Title	Vendor
Art, Humanities, Literature	Art Abstracts	OCLC
Art, Humanities, Literature	Arts and Humanities Search	OCLC
Art, Humanities, Literature	Grove's Dictionary of Music and Musicians	Oxford Univ Press
Art, Humanities, Literature	Humanities Abstracts	Oxford Univ Press
Art, Humanities, Literature	Literature Resource Center (LRC)	Gale
Art, Humanities, Literature	MusicLiterature	OCLC
Art, Humanities, Literature	Scribner Writers	Gale
Art, Humanities, Literature	Twayne Authors	Gale
Biographies	Biography Resource Center (BRC)	Gale
Biographies	BiographyInd	OCLC
Biographies	Complete Marquis Who's Who	Gale
Biographies	Contemporary Authors	Gale
Biographies	Wilson Biography Plus	H.W. Wilson
Books/Libraries	Books in Print	OCLC
Books/Libraries	LibraryLit	OCLC
Books/Libraries	Title Source II	Baker & Taylor
Books/Libraries	Union Lists of Periodicals	OCLC
Books/Libraries	WorldCat (OCLC Union Catalog)	OCLC
Business	ABI/Inform Global	Proquest
Business	AcxiomBiz	OCLC
Business	BusDateline	OCLC

COUNTY OF LOS ANGELES ELECTRONIC DATABASE SUBSCRIPTION LIST
Reference Staff Access in Community Libraries

Subject	Title	Vendor
Business	BusIndustry	OCLC
Business	Business & Company Resource Center	Gale
Business	BusinessOrgs	OCLC
Business	BusManagement	OCLC
Business	Consumers Index	OCLC
Business	Disclosure	OCLC
Business	EconLit	OCLC
Business	General Reference Center Gold	Gale
Business	WilsonBusiness	OCLC
Education	Dissertation Abstracts Online	OCLC
Education	EducationAbs	OCLC
Education	ERIC	OCLC
General Reference	Acxiom Home (Residential Phone Directory)	OCLC
General Reference	EventLine	OCLC
General Reference	FactSearch	OCLC
General Reference	Famous First Facts	H.W. Wilson
General Reference	Gale's Ready Reference Shelf	Gale
General Reference	NetFirst	OCLC
General Reference	Papersfirst	OCLC
General Reference	Proceedings	OCLC
General Reference	World Almanac	OCLC

COUNTY OF LOS ANGELES ELECTRONIC DATABASE SUBSCRIPTION LIST
Reference Staff Access in Community Libraries

Subject	Title	Vendor
General Reference	World Book Encyclopedia	OCLC
Government Publications	Government Publications Index (Impact/ACCESS)	auto-graphics
Government Publications	GPO	OCLC
Health/Medicine	Cumulative Index of Nursing and Allied Health	OCLC
Health/Medicine	Health & Wellness Resource Center & Alternate Health	Gale
Health/Medicine	MDX Health Digest	OCLC
Health/Medicine	MEDLINE	OCLC
Health/Medicine	PsycFIRST	OCLC
Law	LegalPeriodical	OCLC
Magazines & Newspapers	ArticleFirst	OCLC
Magazines & Newspapers	California Northern Newspapers	Proquest
Magazines & Newspapers	California Southern Newspapers	Proquest
Magazines & Newspapers	ContentsFirst	OCLC
Magazines & Newspapers	ECO (1995 - current)	OCLC
Magazines & Newspapers	Informel (Spanish Language)	Gale
Magazines & Newspapers	InfoTrac One File	Gale
Magazines & Newspapers	Los Angeles Times (1985 - current)	OCLC
Magazines & Newspapers	National Newspaper Index	Gale
Magazines & Newspapers	Newspaper Abstracts	OCLC
Magazines & Newspapers	Newspapers27 Index and Full Text	Proquest
Magazines & Newspapers	PA Abstract Research II	Proquest

COUNTY OF LOS ANGELES ELECTRONIC DATABASE SUBSCRIPTION LIST
Reference Staff Access in Community Libraries

Subject	Title	Vendor
Magazines & Newspapers	Periodical Abstracts	OCLC
Magazines & Newspapers	Reader's Guide Abstracts	OCLC
Magazines & Newspapers	Wilson's Select Full Text	OCLC
Reader's Advisory	Novelist	Ebsco
Science/Technology	AGRICOLA	OCLC
Science/Technology	Applied Science & Technology Plus (ASTP)	OCLC
Science/Technology	BasicBIOSIS	OCLC
Science/Technology	BioAgIndex	OCLC
Science/Technology	BioDigest	OCLC
Science/Technology	Encyclopedia of Life Sciences	Nature
Science/Technology	GenSciAbs	OCLC
Science/Technology	GEOBASE	OCLC
Science/Technology	InternetPCAbs	OCLC
Social Sciences	Contemporary Women's Issues	OCLC
Social Sciences	PAIS International	OCLC
Social Sciences	SIRS Researcher	OCLC
Social Sciences	SocialSciAbs	OCLC
Magazines & Newspapers	DataTimes	OCLC
General Reference	Britannica Student Encyclopedia	Britannica
General Reference	Encyclopedia Britannica School Edition	Britannica

COUNTY OF LOS ANGELES ELECTRONIC DATABASE SUBSCRIPTION LIST
Reference Staff Access in Community Libraries

Subject	Title	Vendor
Kids	Britannica Elementary Encyclopedia	Britannica
Genealogy	Heritage Quest	Proquest Info
Sciences	Nature Weekly	Nature
Health/Medicine	Health & Wellness Center Academic	Gale
General Reference	General Reference Center Gold	Gale
Kids	InfoTrac Junior Edition (Middle School)	Gale
Kids	InfoTrac Kid's Edition (K-6)	Gale
Kids	Kids Infobits	Gale
General Reference	Opposing Viewpoints	Gale

COUNTY OF LOS ANGELES ELECTRONIC DATABASE SUBSCRIPTION LIST
Support Staff Access in Community Libraries

Purpose	Title	Vendor
Collection Development/Technical Services	Booksinprint.com	R.R. Bowker
Collection Development/Technical Services	Children's Literature Comprehensive Database	Children's Literature
Collection Development/Technical Services	Image with BIP+	Ingram
Collection Development/Technical Services	Title Source II	Baker & Taylor
Collection Development/Technical Services	Ulrich's Serials Analysis System	R.R. Bowker